

DIARY.

1873-4.

W. H. DALL.

U.S.C.S.

Mr
W
Thur

W. H. Dall
U. S. Coast Survey
214 Stockton St.
San Francisco
Cal

14 Black Rocks
Lithia Bay
Long Bay
Port Maitland
Moorabie
Chickoff Anchorage
Chickoff Is
Lundholm
Anchorage Chickoff Bay

Monday Dec. 1, 1873

Morning - P.O. breakfast & office
Herendeen comes in - and gets up
books from vessel. Work over chart
of Hog Island all the A.M. Go to
Shumacher's room with him in P.M.
& look at ethnological specimens.
Dinner and in P.M. go to hear Italian
opera Un ballo in maschera at Platts Hall with
Miss Noyes

Tuesday Dec 2

Morning cold, down to breakfast &
then to office. Finish Hog Id. chart
Get pictures of E. Siberian tribes
from Frost. Unpack boxes of collec-
tions. Write Packard. P.M. call on Ragman

Wednesday Dec 3

Morning raining hard. Engage Mr.
Baker as mate for the vessel -
Order box for birds, pack them up &
send to Band by Express. P.M. dine
at Capt Noyes & call on the Braumans

Thursday Dec 4

Breakfast, call at Snook's - Up to
office. Stearns comes in. Go down
to the Academy with him and look
over fossils then to office again. P.M.
Go up to Mrs. Otis' & attend a sociable
at Mrs. Dr. Hastings' having a pleasant
time.

Friday Dec 5

Morning up to office. work over estimates, write to Am. Geographical Soc. & note for Alaska Herald. P.M. at home

Saturday Dec. 6

Up to office. Letter from C. W. Field. Write letters. Get bath in P.M. Go down to Alaska Herald office & Bacon's. Evening call on Stearns & see Steindachner

Sunday Dec 7

Morning - office, church & back to office write letters and fix E. Siberian pictures. Dine & spend evening at Capt. Noyes

Monday Dec 8

Down to bank & up to office. See Davidson about boat. Write to Reed. Capt. Herendeen comes in also Capt. Belknap about 3 P.M. go aboard the Yukon & bring up some books &c. Up to office & dine. P.M. go out to Capt. Hall's & spend the P.M.

Tuesday Dec 9

Up to office. raining hard. Work over accounts and requisitions. Go down to Wells Fargo's with Shumacher into bank & back to office. Then down again stop at Barstows & meet Stearns & Steindachner. up with them to office & look over alcoholics. P.M. go to see Geneva Cross with Burdell

Wednesday Dec 10

Morning, down to office, send pkgs. to Ukely Wells Fargo - 2.30 P.M. go down to vessel with Dr. Steindachner, and look over fishes - The Dr afterwards dines with me - Call at Lewis, Dr. Hewotow & Capt Smith

Thursday Dec 11

Down to office - See Rahskopf - Go over chart with Uhlig. Post letter to Th Davidson. Go in to Overland office & see Carmany & get papers. P.M. dine with Stearns. Prof & Mrs. Davidson, & Dr. Steindachner at Dr. Blakes.

Friday Dec 12

Letter from mother with good news from Sadie. Work at office over tracing of Kyska. Call on Barstow find him out. Take the 3 P.M. boat & go to Oakland and call on the De Ros & Wilsons & dine with them returning at 10.20

Saturday Dec 13

Down to office - Raining! Get tracing from Belknap - work over soundry gear. P.M. call on Mr. Avery and lose my umbrella

Sunday Dec 14

Round to office & church & returned to office write letters & work on diagrams. P.M. dine at Capt. Noyes and call on the Olmsted & Braumans in the evening with Miss Noyes & Mr. Smith

Monday Dec. 15.

Morning down to office. Simpson comes in. Work over sounding machine and finish tracing of it. Capt. Herenden + Scheindachner call. Agassiz is dead. P.M. Leave books at Kimballs and go to dinner. Evening Academy takes action for a public meeting in regard to Agassiz's death and I meet Muir, Leconte and others and walk back with Andrew Davis.

Tuesday Dec 16

Up early - breakfast + go to office no mails. Work at office. Stearns + Capt. Hall come in. P.M. Take books to binders. Evening call on Mrs Dr. Hastings and Mrs. Rankin.

Wednesday Dec 17.

Down town - no mail again. Work over covers for pamphlet. Capt Herenden comes in with bills. Go down to Bacons. Bank + Borstows, + Whitney's. Meet Committee on Agassiz memorial meeting at 3.30. Decide the Davidson Stearns + myself shall be committee on speeches resolutions + arrangements. Dine at Capt. Noyes and spend evening at Church meeting of trustees

Thursday Dec 18. 73

Down to office, write resolutions
direct letters for members to
send tickets & write to Leconte
Gilman & Stebbins about speeches
Capt Herndon comes in, P.M.
work till 11 P.M. with Stearns over
directing & post stamping 350
envelopes. then go down to his
house for a little while. Fischer
comes in in A.M. & I give him
an order for a dredge & 2 nets

Friday Dec 19

Morning, mails shot again - stop
at Capt. Noyes' & bank, then to office
Walk down with Mrs. Rockwell &
go down to Garretts & Bucknans
Back to office. McKenna comes in
Rogus & Langteller. Evening. Baker
ill, call on Stebbins & talk over
lecture & Rejman secretary ship.

Saturday Dec 20

Up to office, Papers come. better
weather. Work at office - Capt. Hall
comes in also Mr. Morange. Down
to see Bacon. P.M. Baker goes out
to the gardens. Evening mark clothe
& go round to Stearns

Sunday Dec 21

Morning as Mr. Stebbins does not
preach I do not go to church

but stay at the office and
write and help Schumacher.
P.M. dine with Capt. Noyes &
call on Mrs Newton, with Miss
Noyes in P.M.

Monday Dec 22

Buy some cigars and a present
for Capt. Noyes. Down to office & see
Capt. Herendeen - Stearns being
sick - see Barstow, go down to Stearns
then round to Carmacks, back to office
see Mrs. Dr. Scott, then to dinner &
over to Stearns. Take Miss Stearns
to the Hall and proceed with the
Agassiz memorial exercises &
back to Stearns.

Tuesday Dec 23

Up to office. Day clear & cold and
Recon's paper to Stearns. Work
at office over Radiak Meteorology
Go down to Garretts & look at
sounding apparatus - Go to bank
and back to office - Down to
dinner. P.M. Call with Baker at
Mr. Abram Hall's -

Wednesday Dec 24

Letter and a beautiful pair of slip-
pers from Sadie - Meet Stetson
& Rogers & Capt. Hall comes up to
the office, get my charts - four of
which are out - Stearns comes to

the office & we read a lot of proof.
Mikenna comes in & I introduce him
to Sangster. Later in the day go
down to Bucknam's and into Bowne's
then round to Mrs. Brannan's and
Miss Noyes'. Call on Capt. Smith
and up to Bancrofts - get a book
for Baker. Round to dinner
meet Bendel. go through the Cal-
market and into the art gallery.

Thursday Dec 25

Morning pleasant. go to breakfast
and round to office. write letters
to Hilgard & Peirce. About noon go
round to Stearns for a while &
back to room. at 6 P.M. go to Hague's
to dine & spend the evening

Friday Dec 26

Breakfast & round to office.
Go down town & call on Whitney about
fossil man. Show charts to Stickney
& Capt. Noyes. and return map to
Frost. Back to office & down to Buck-
nam's. Dine & call on the Brannan's
with Miss Noyes.

Saturday Dec 27

Down to office - see McCollum &
give him data, & look over Smith's
shells. Go down to Bucknam's and
see about pattern of sounding shot.
Back to office. Dine & call on Stearns in P.M.

Sunday Dec. 28

Church & back to office write letters
& work over chart. Then over to Capt
Noyes' to dinner & spend P.M. with Ba-
ker.

Monday, Dec. 29

Down to P.O. and bank for book
Then to office, see Herenden and down
with Sangster to see about stove.
Back after calling at Fordham's.
Work over list of birds. Evening
raining hard, go to California Theater
with Bendel & Baker.

Tuesday Dec. 30.

Morning. Call at bank, up to office
have stove put in. Go to carpenter
& bank, also Rahskopfs. Back to office
see Stearns. Down to Bucknam's & re-
turn to office. P.M. Call on Mrs. Elmer.

Wednesday Dec. 31.

Morning call at Hodges & bank. Up to
office work over birds. Raining in
P.M. Go to Alhambra, minstrels
with Baker & Bendel in P.M.

January 1, 1874

Thursday

Morning rains hard. Down to office
Herenden comes in with bill. Work
all day at office over vouchers. Rains
harder than any previous day this winter.
Evening call on Capt. Smith.

Friday Jan 2. 1874

Morning call at Bacon's & down to office. Sounding machines come in but the shot has not been cast according to pattern. Go down to C. A. Jones and arrange to have castings made at 7f. Read proof at Bacon's. Back to office see Stearns. P. M. call on Dr. Stebbins who is out and on Mrs. Rockwell

Saturday, Jan 3

Morning down to office. Clear & cold. Work over vouchers, go round and pay bills - back to office and in P. M. call on Stearns.

Sunday, Jan 4

Morning clear and fine, Office church and back to office. Write letters & in P. M. dine at Capt. Noyes & call on Messrs Phillips & Merrill

Monday Jan 5

Morning down to office - Work over accounts all day - Write Hein & in P. M. call on Mrs. Hague. Stearns comes in after Academy meeting.

Tuesday, Jan 6

Morning down to office. Cloudy. cold. Work over vouchers &c. & over list of birds & shells from the arctic Ocean. P. M. dine at Mr. Jennings

Wednesday Jan 7

See Mayhew & Simpson

Seeva & Herenden come in. Call
at shoe store, Photograph gallery
Muller's & Office. Work over
catalogue of shells - Go down to
see Bloomer but don't find him
in, walk up by Dr. Stone's old
church & back to office - See
Miss Otis, call at Mrs. Haque's
P.M. call on the Otises

Thursday Jan 8, 74

Clear & cold - Down to office early
Work over catalogue of Archie's
shells all day - P.M. call on
Stearns

Friday Jan 9

Day fine & clear. Up to office
then over to Oakland with Stearns
visit & spend the day at the Cal
University. Back to town in
P.M. Evening call on Stebbins
and the Braumans -

Saturday Jan 10

Morning cloudy & cold. Down
to office. Hancharenko comes in
Go down to Ice Co's, Carmichael's, Snooks
& back to office. Work over parasites. P.M.
Stearns comes into room, Baker goes to hear
Gilman & I call on Capt. Hall

Sunday Jan 11

Day raw & disagreeable - Office & church
& back to office - P.M. Din Capt. Noyes

Monday Jan 12

Morning, up to Academy, get shell & walrus parasites. Go to Bank & draw \$600 gold @ 112. Then to office see Capt. Herendeen. Get MSS from Stebbins. Go down to vessel and pay off men to Jan 1. P.M. Call on Mrs. Rankin (out) and Ben. Avery

Tuesday Jan 13

Down to office & took over Bendeleben's pictures. Send records to office. Work over charts and write letters. P.M. Play crib with Mrs. Elmer & attend Mrs. Otis' reception to the Duke of Genoa.

Wednesday Jan 14

Down to office, see Herendeen. Work over store list. Get photos. P.M. Take books to the Brannans & call on Miss Noyes

Thursday Jan 15

Down to office. Day gloomy & S.E. 4. Work at office, write Lee & Shepard. P.M. Call on Stearns. Strong S.E. gale

Friday Jan 16

Down to Navy Paymaster about Hospital. See Capt. Hall who brings in fossils & Herenden also Hospital man. Weather squally. Go down town. Get extras of Bacon. Back to office. P.M. Call at Capt. Noyes & the Brannans. Noyes gets back.

Saturday Jan 17. 1874

Go to Academy + get fossils. Call at Raphael's about pants. Go up to office, blowing hard SW. with rain. Down town, pay binder, printer & and get Rahskopfs bill, back to office from bank Pack up a lot of shells. P.M. Bendel + Stearns come up to room

Sunday Jan 18. 1874

Day showery with southerly winds. Have a bad cold, don't go to church, spend day packing and writing letters. P.M. Dine at Capt. Noyes

Monday Jan 19

Rainy + stormy. Down to office then to Baistows, Fernents, Rahskopfs pay bill, then to Geol. Survey meet Hague + then up to office again. Hereafter in in A.M. - order Coal oil, Bad cold all day - P.M. Acad. meeting, present two papers.

Tuesday Jan 20

Day half clear - Work at office in A.M. P.M. go down to vessel and overhaul scientific equipment Evening call on the Vases.

Wednesday Jan 21

Work over chart in A.M. Write during day, wet + gloomy - P.M. Call on Capt Smith

1874

Thursday Jan 22 -

Up early day fine - Go to P.O.
 + Lennett's, get rubbers, put
 duds in shape - go up to office
 and transfer drawing appara-
 tus into other room - Get
 ready to sail south - Go aboard
 with Smith about noon and
 stand out about 4 P.M. wind
 very light

Friday Jan 23

Morning off Pt. New Years almost
 a dead calm - The Wolcott pas-
 ses us bound for Monterey -
 Spend day hunting at mills &
 sea shore picking up Appen-
 dicularia & Cyatharia - Late
 in evening get a land breeze

Saturday Jan 24

get a little wind off Pt
 Pinos in A.M. - cloudy -

Sunday Jan 25

Very light winds off C. St. Martin

Monday Jan 26

Wind none in A.M. weather fine
 off San Luis Obispo - P.M. light
 N.W. wind & foggy weather

Tuesday Jan 27

Off Santa Rosa & Cruz - Wind
 very light -

Wednesday Jan. 28.
Off Santa Barbara Island, Wind
light fresher in P.M. About sun
down off Catatuna Harbor. Go
in with a light breeze towing
part of the way - anchor in 6
fms off the spit about 7.30

in white with pink spots.
 Get *Glithidina albida* free with ease
 in 40-60 fms. Bendel & M. Baber
 go to Johnstons ranch & bring
 back a mortar & pestle & have
 a good time generally. Play
 crib in P.M.

Sunday, Dec. 1, 1874

Day fine, work over yesterday's
 dredgings on the beach in P.M.

Monday, Feb 2

Carry the boat over and dredge
 on the north side of the island.
 Don't get much. P.M. go over haul
 dredgings. Sent party to Johnstons
 ranch to get a few store things.

Tuesday, Feb 3

Weather bad, had out but did
 not go to sea on account of the
 heavy westerly wind blowing. Had
 snails most of the day. Evening etc.

Wednesday, Feb 4

Got out early in A.M. for San
 Miguel. Wind dead ahead.
 Beating to windward all day.

Thursday, Feb 5

Set in toward San Juan Bautista in
 P.M. Write Mother M.S. Etc. & other
 kind letters & get some papers. Stand
 at stern but we is fairly calm and
 go out but a little way.

900

9^h. 05
 29

Let go

15 fms out
 52

11 miles SW by W $\frac{1}{2}$ W of San
 Juan Bautista

St. End Santa Cruz	SW by W
E in Anceps	S.E.
San Carlos Mission	SW by W
St. Miguel	E by S

Friday Feb 6, 1894

Very light winds all day. P.M.
Foggy & calm at night.

Saturday Feb 7.

Light wind all A.M. About
1 P.M. strong WNW wind starts
up and we reach San Mi-
chel Harbor about ten minutes
past 7 and anchor in 7
fms hard bottom.

Sunday Feb 8

Blow a south-easter. Go
ashore in A.M. and see Mr
Hewitt & B. Small schooner
comes in P.M. Meeting too
strong to go ashore.

Monday Feb 9

Day calm & fine. Dig out a
lot of shells in A.M. Brewster
& Baker go over to the north
point of the island. Get a
number of prehistoric bones & a few
a good many beach shells.

Tuesday Feb 10

Start early in A.M. Rainy & SE wind
for the NW end of the island where
we pick up a good many prehis-
toric bones and pack them back on
a horse & our own backs to
the vessel getting back about
4 P.M. Evening fresh SE wind

1894

Wednesday, Feb 11

Wind light in early AM. Sail
about 9 AM from San Rafael
for Monterey. Shortly after leav-
ing port wind changed & we
stayed by the shore.

Thursday Feb 12

Strong NW wind in AM with heavy
swell. Excursion up river. Reached
dock cabin. Stately line of hills.

Friday Feb 13

Light breeze from NW. Reached
with sailing. A few boats in port.
Fine light.

Saturday Feb 14

Got on in AM. Fine day. Boat
from - about 10 AM. Reached
dock. The day is clear &
the air is warm. The hills are
a mass of white. A number of
invitations to a party were
sent and all of them were
in. Reached Ranch. The
Barker & House. A party
returned to the hotel. The
further a point. The day
is gone. Reached Ranch. The
House has left. The town
is very full. The rest
call on the priest. I went. The
the light keeper also invites us.

9h 01 12 pm

11.25
2.05
3.00
3.50
4.75

5.27 00

2.15
28.00
28.20
29.45
30.15

5 miles of R. to B. Ranch

Sunday Feb 15

Washed to church in A.M.
P.M. go round on the beach &
find two Calappa crabs which
seem to be pretty good - Catch
a lot of crabs in evening - Day
windy & raw - but clear

Monday Feb 16

Morning go out dredging - Noyes & Baker
go out to the lighthouse - P.M. I go
down & get whale skulls, buy some
shells & shell jewelry. Bendel & Capt.
Harcaden go shooting & get one quail -
Evening work over dredgings -

Tuesday Feb 17

Morning wind light - about noon
light SW breeze, sail for San Fran-
cisco. Outside the breeze freshens & we
make Pigeon point by dark. A
squall comes out of the NW and
we have to take in all sail - Capt.
Harcaden falls & sprains his ankle
badly - Gale from the NW

Wednesday Feb 18

All day battling against the NW
gale & sea & lying ground.

Thursday Feb 19

Wind lighter in A.M. beating up
the coast. Measure porpoise in
P.M. & clean his skeleton partly
By night up with Point Pedro.

1874

Friday Feb 20

Morning wind light, beating all day
toward Pt. Barrow. About 5 P.M.
get between the heads and the wind
dies away.

Saturday Feb 21

Get in about 2. A.M. - Go up town
get hair cut, P.O. Tennent's &
Office - Patterson has been ap-
pointed Supt of the Survey. Look
over letters. Go down town, call
on Whitney, Overland Office, Stearns
up to office again, down town &
dine with Stearns & spend the
evening with him Baker & Capt
Smith at his house

Sunday Feb 22

Morning, P.O. Breakfast, room &
office - Church & back to office
write letters. Dine & spend P.M.
at Capt. Noyes

Monday Feb 23

Breakfast, Steele's, Room, Ben-
delben & Bear on street, Office
Write on report & make drawing of
sounding machine. Go to Grand Hotel
for Whitney, who is not there. Then
to vessel. Get things sent up. Back to
office. Dinner. Evening Stearns
comes in.

Tuesday Feb. 24. 1874

Morning down to Fordham & Jerning
& breakfast, Yales & Balcom with
MSS. Office. See Mr. Baker, &
things come up. See Davidson &
hand in report, Look over draw-
ings with Schumacher. Write letter
get one from Wagner by Clay
P.M. go to call with Capt. Smith
on Capt. Hall

Wednesday Feb 25

Go to Fordham's Funnels, P.O. order
stationery at Hodges and take at
Snooks - down to office - work over
maps & see Einbeck. Go down town
see Schirpsen, Whitney, leave instru-
ment with Rahskopf. Go into Bacon's
& read proof. Dinner and in Evening
call on Mrs. Hague

Thursday, Feb. 26.

Fordham's, P.O. breakfast. Bacon's
proof, A.C. Co's, office - down to Schirp-
sen's, Give sketches to Whympen
Lunch with Schirpsen. Down to ves-
sel look over collections Up town
stop at office and read proof -
Dinner, Evening call on Capt. Her-
auden -

Friday Feb 27

Bacon's, Breakfast, Office - Pay
bill for medical attendance

See Mr R. Baker and order lumber
go to bank - Back to office &
write letters - P.M. down town
call at Raheskops - Carmany's
Dr Ellinwoods - Habbells & order
keys - and finally back to
office - P.M. Call on Miss
Nozes who goes to Los Angeles
tomorrow. Order lumber

Saturday Feb 28

Baker goes to Sta. Barbara -
up to office and send tracing
of charts. Write on Petrumans
article - Go down and leave
charts at Shipser's - Call
at Moore's & buy some books
Dine & call on Smith and Stearns
in P.M.

Sunday March 1

Morning breakfast, office &
church - After church go up to
Mr. Hagues, back to office. Clear
up - write letters - P.M. Dine
at Ashburners with Mr & Mrs Hague

Monday Mar 2

P. Office no letters. Breakfast, round
to Steeles, out, up to room. Opera
House & office. Herendeen in
& day cleaning up - Down town see
Steele, Frask, Whitney, Carmany, Bacon's foreman
Stearns, Goto bank, Day Moore. P.M. Opera House
with Mrs. Elmer - as Bendel is unwell

at 10:30 a.m. on March 1st
and on 2nd of March 1892. At
- with 5th Mar - 1892

Tuesday Mar. 3/74

Morning rainy. Down town. see Car-
many & printer. Breakfast. see Frost
and up to office. Down town, call
at Bourn's, Pay Ackerson's bill of lum-
ber, round to vessel & look over box-
es up to office & write on catalogue
Dine, P.M. call on Smith & Stearns

Wednesday Mar 4

Order coal. Breakfast with Stearns
Meet Whympie & see Capt. Noyes
Up to office, Herndon & Bailey come
in. About 2 P.M. Go down to R.R.
office and see Montague about
reducing freight for the S.P. on
Whale. Back to office & work on
packing. Dine & in P.M. call
on Chas & Low.

Thursday 5

Call at Bacon's, then at Fennell's
Breakfast, Get Baker's package
and up to office. Rainy & nasty.
Packing specimens. Go down
to the vessel & pack keg. See
to boxes and come ashore up
to office & continue packing.
Dinner & in evening call on
Mrs. Otis.

Friday Mar 6

Morning, no letters. Up to office -
Pay Hubbell's bill. Spend day in

packing boxes, P.M. Go to Academy
and look over Cook's inlet shells &c. take
up whale's skull, porpoise do, & human.
P.M. Dinner, Call on Stebbins (out)
& the Braumans.

Saturday, Mar. 7/74

Morning, down to P.O. see Carman
about Scammon's matter. Up to
office. Pack box & clean up.
write to Prof. Herry. P.M. dine
and Baker comes back from Sta-
Barbara. Evening, Mr. Durkee comes
in and we call on Stearns.

Sunday, Mar. 8.

Breakfast and up to office
Church, back to office, write letters
Dinner and call on Mrs. Whitney
in evening.

Monday, Mar. 9

Heindeen comes in, also old steward
whom I refuse to pay. Pay off
Power and Richmond. Get
box & pack specimens. Get
notice from Danl. J. Sullivan that
the steward has filed a claim with
him for his wages - write to
him in reply. P.M. Get boxes
to Wells Fargo's. Up to office & work
over San Diego fossils. Down
town & see printer and Carman
dinner work over proofs and call on
Capt. Smith.

1874

Tuesday, Mar. 10.

Down town, call on printer, leave proofs with Carmany, breakfast and see Capt. Noyes, get bank books. Up to office - get receipts and go down to the Freight office of the R.R. and leave them with guarantee & release, way bills to be sent up tomorrow to the office. Back to office and find Worthen's card, read proofs and dine. Evening call on Mrs. Rankin

Wednesday, Mar. 11

Morning see Tennent, leave watch call at binders, go up to office see Capt. Herndon, get receipts from R.R. Co. See Steward who brings a letter from Sullivan who throws it on my sense of justice to pay the mutinous rascal. Go down and see him. He proved to be a good fellow and a friend of Stetson's.

Call at P.O. Tennent & later at printers - Office, see R. Baker. Evening goto circus with Bendel and Baker -

Thursday 12.

Morning rainy and stormy, P.O. up to office, Worthen comes in read proofs. Goto Academy &

look over papers. See Jennings and printer. Work over catalogue of fossils. after dinner call on Mrs. Ashburner. Write to Austin

Friday Mar. 13

Morning P.O. & printer. Up to office read proofs & finish paper on fossils. Down town to printers, see Jennings and Whitney, look in to see Capt. Noyes who is out. Work over vouchers, P.M. Call on Stebbins.

Saturday Mar 14

Morning raining hard. Up to office write letters. Get ready to go to Stockton - to see H.S. Austin. Get lunch & leave on the 4 P.M. boat. Get to Stockton about 8.30. and ride over with Henry Austin.

Sunday Mar. 15

Go to church and afterwards walk about the town with Mr. Austin. Evening cloudy & cold

Monday Mar 16

Morning. Go over to the Insane Asylum with H. Austin & Clayborn and go over the female ward and new wing with Dr. Shurtleff. Evening call on Mrs. Marshall Hall.

Tuesday Mar 17

Start for San Francisco on the 8 A.M. train and get in about

half past twelve. The St
Patrick's procession is in pro-
gress. Call at Jennings and
P.O. room and up to office
get letters, up to office. Work
there till dinner time. Evening,
go to hear Miss Neilson in as you like it

Wednesday Mar. 18

Down to P.O. Up to Capt. Noyes' of-
fice & bank - then to C.S. office
see Schumacher. Herenden &c.
Work over bills and vouchers
About 2 P.M. Go down to see Hodge,
kins on the Maggie Johnstone who
is just in from the Leeward Ids.
He gives me some shells &c.
Back to office & write. P.M. go to
dinner & call on Capt Noyes.

Thursday, Mar 19

Morning. breakfast, get tickets
and up to office. Pay off Schu-
macher. Work over vouchers.

Write letters & pack away pamphlets.

P.M. call at Smiths and on Stearns

Friday Mar. 20

Morning cloudy. Up to office. Work
over articles on Deserted Hearths.

P.M. see Hodge & order stationery
Go down to vessel. Back to
office & write. P.M. Call on
Mrs. Hall.

Saturday Mar 21. 1874

Morning call at Hodges & up to the office. Work over article for Avery.

P.M. Go down town and see Watkins, Avery, out, and call at Shreve's. After dinner go to hear the School for Scandal with Miss Noyes.

Sunday Mar 22

Morning warm & pleasant - Breakfast and up to room & office -

Church. back to office & write - work over porpoise drawing.

P.M. dine at Capt. Noyes.

Monday Mar 23

Post office - breakfast, up to office, Herenden comes in - go to Cal. Theater & get tickets - Leave car at Snook's, go to Carmany's and Hodges, Shreve's and Academy - P.M. work over vouchers. Dinner and in evening call on Stearns. ^{work over} Chilton

Tuesday Mar. 24

Morning P.O. breakfast, pay Hodges bill. call at ^{Bacon's} bank & room up to office, pay George off - work over proofs. Go down town call at Carmany's, leave proof with printer call at Shreve's. Back to office Davidson returned from Sta. Barbara. Evening Go to see Nahl's picture and call at Hotel for Boardman and on Mrs. Bugbee.

1874.

Wednesday Mar. 25.

Down to P.O. printer's, Lennets and breakfast. Up to office. Herndeen and G. H. Boardman come in. work over payrolls &c. Rains in P.M. Evening go to hear Miss Neilson in the Hunchback, with Mary Stearns.

Thursday Mar. 26

Morning showery. P.O. breakfast, room and office. Work over list of stores &c. Go down to Fordham's and get pin, call at Watkins' and back to office. Evening, call on Capt. Bryant at the Grand Hotel and see Wm. J. MacIntyre and Boardman at the same time.

Friday Mar. 27

Morning, P.O. breakfast, room & office cloudy & southerly wind. Go down to see Hodgkins who has gone. Then to Wright and Bowne's, Hall's and up to office. Work over article on southern shell heaps. P.M. call on Capt. Noyes and Miss Brannan.

Saturday Mar. 28

Morning get Brook's bill, up to office pay bills and make out vouchers. Talk over accounts with Bradford Day cloudy & windy. Yale brings up Academy proceedings. Work over them awhile, send off exchanges. P.M. Stearns comes round.

Sunday, Mar. 29. 74

Morning - Windy - Office, church & write letters - P.M. call at Capt Noyes & spend the evening.

Monday Mar 30

Morning cloudy - P.O. breakfast Hodges, bank and F.B. Taylors up to office - see Herendeen and get bills. Down town later to Bacon's then to Burns & Buck's & pay bills. See Mr. Hall & Mr. R. Baker when I get back to the office - P.M. get Steele's bill and call at Merrill's (but) Stebbins (do) & on Mrs. Rockwell. Leave card for Bryant.

Tuesday Mar 31

Morning, breakfast, call at Taylors and order oil, up to office & work over accounts. Stearns comes in. Work at accounts until P.M. Go to Bacon's & get proof. Evening call on Capt. Chas Bryant

Wednesday April 1

Morning, breakfast, printers P.O. and up to office - see Herendeen. Go down to vessel with Capt Bryant and family & lunch. Return to office and work over accounts & article on Southern shell heaps - Dinner and in evening call on Mr. Jennings

Thursday April 2, 1874

Morning stop at Bacon's breakfast, pay
box rent at P.O. Bank and settle draft
office and work over accounts.

Work over & finish article for Avery.
Down to Carman's & look over
proof. Dinner - in P.M. call with
Bendel at Capt Herendens who is out
and after words at the Otises

Friday April 3, 1874

A.M. Printers P.O. and office. Down
to vessel, Mrs. Rockwell not being at
home, Capt. Johnson & Seva call in
my absence. Look over Natural History
material - arrange papers and back
to office. Pay off Carpenter, Charley
& Harry. Work over accounts. Down
town, call at Whitney's office & don't
find him, in to printer's and Moore's
P.M. Call on Capt. Noyes.

Saturday April 4

Morning, printer, P.O. and breakfast
up to office stopping at bank. At
1 go down to vessel leaving note for
Mrs. Rockwell. Pay off the men to
April 1. Go want to the Hassler but
find only Mr. Rhodes aboard. Up to
office, down to printers. dinner
and in P.M. Call on Stearns.

Sunday April 5

P.O. breakfast, office and then to church.

back to office, write letters, down
to Hassler, see Capt. Johnson and up
to Capt. Noyes to dinner.

Monday April 6

Printer's, P.O. get instructions, break-
fast, Shields, Platt's Hall, office, see
Herendeen, look over instructions, send
case to Bloomer, with paper on fossils.
Work at office, go down to
printer's again.

P.M. go to concert with Miss
Follansbee and Miss Noyes

Tuesday April 7

Morning P.O. Breakfast up to Craigs
& see him & Dr. Cooper. Up to office -
stopping at bank by the way - later
go down to Foxham & Jennings &
cigar store, leave MSS at printer's
then to office - ^{academy} printer's & dinner P.M.
call at Bryants, Smiths, Chamberlains
to see Avery & Brackett and finally on
Stetson - Smith is worse.

Wednesday April 8

P.O. Breakfast - Sack's, office - Herendeen
comes in, write letters - at 2 P.M. go
out to the Giant Powder Works with Dr.
Akers. Back to office, get proof - dinner
send proof to Stearns & call on Mr. Hall.

~~Smith is~~ Thursday Apr. 9

Morning - P.O. Breakfast, up to office. see
Herendeen - later go down town & see

Express people about packages -
Fortham, & Jennings, go round
to see beef. Back to office read proof
leave card for Mrs. Rockwell -
Down to printers, dinner and in
evening call on Mr. Raymond.

Friday Apr. 10, 1874

Up to office, Turner comes in, go
down to vessel with him and
Mrs. Rockwell. Back to office. Car-
many has been in about an hour
Go right down to his office but
don't find him, leave word at
Jennings, then up to Shearn's -
Take Turner's job on my hands
into Alaska Co's. Office, then
see Smith get material at
Hodges & Sheele's, leave him &
go to office. Instruments have
come - Read proof, P.M. Call on
Turner at the Occidental, and after
wards on Smith

Saturday Apr. 11.

Morning, breakfast, office, send glasses
& bottle to vessel by Tommy, with order for
Smith & cobbler - Sit clock - order bill at
Express office - ^{Whitell's} Go down town, call at
Kato, Sacks, Jennings, Carmanys, Barnards
Blakistons & pay bill, Suttons, Sacks
Raphaels & back to office. Work over
vouchers. Call at Mrs Rockwells -
Dinner - P.M. call on Shearns & Turner.

Sunday, April 12/74

Morning rainy and overcast - P.O.
Breakfast, Office - Don't go to church
as Stebbins is away - Write letters
and memoranda for Stearns - P.M.
Call on Hague, out to me. Away -

Monday April 13

P.O. breakfast - room & office - See Heren-
deen. Down town call at shoemakers
Barnards, Stearns, Tennents, Murphy
Grant & Co., Hodges, Bank, Ackerson's
& Wrights, back to office - Write
on accounts, dinner, P.M. - call
on ~~Father~~ Jennings & Nichols -

Tuesday April 14

Morning. Office, See Herendeen &
Turner - down town. Get bill of
oil &c - sell draft at bank - Back
to office, make out vouchers -
P.M. call on Bryant, Rankin, & Hall

Wednesday April 15

Morning, Call at P.O. breakfast, Hodges Bacons
Stearns, Bank and shoemakers, up to
office, Herendeen & Noyes come in -
Work over vouchers, Pay bills at
Murphy, Grant & Co., F.B. Taylor & Co.
& Barnard - back to office - P.M.
Call on Whitney and Otis -

Thursday Apr. 16

Morning, Call at Stearns, Bank & up
to office - See Herendeen & Noyes -

Get books &c down to vessel -
Work over blanks & vouchers - Austin
comes in and in P.M. I go up
to Mr. Selby's to dinner - Evening
call on Stebbins who is out -

Friday Apr. 17. 1874

Morning P.O. breakfast, office. See
Bryant and Whympse - Herendeen -
Send off vouchers - to pay bills -
Work over accounts - P.M. Go down
town & pay Dunning's bill - Even-
ing call on Herendeen & Stebbins

Saturday Apr 18

Morning, down to P.O. & break-
fast - room, bank & get books
draw 420.00 & meet Herendeen on
the way - Up to office, Give Noyes
a check & check off bank a/c which
proves correct. P.M. go down to
vessel which lays off Meiggs Wharf
give the men their orders for their
advance, clear up in room -
Back to office, call on Avery
then on Dunning's where I dine
Evening back to room and over
to Stearns -

Sunday 19

Morning, straighten up in room
down to P.O. Leave order at Tennent's
breakfast - room & up to office -
write letters and put things in order
for going - Call on Hager Noyes & Bramm

Monday April 20, 1874

Put things in order in room - down to P.O. call at Luerents, Carmays breakfast - get piles of papers - Call at Navy pay masters office.

Room. buy slippers, up to office have things brought up - write Post cards - make up accounts -

Down to bank - draw balance, see Shippee, Rogers, Brown & back to office, get things in order, close up my room; leave note in regard to mail

Drive down to Carmays and thence to the wharf - Get things aboard, arrange matters in my room - About 2 P.M. weigh anchor and stand out to sea bound for Sitka.

Tuesday 21

Wind fresh, weather fine, Read Bulwer's last novel the Parisians.

Wednesday April 22

Day cloudy wind light. Overhaul scientific stores, read Victor Hugo's '93.

Thursday April 23

Day cloudy with light winds.

Friday April 24

Day over cast wind light - see an English cruiser a ram, probably the Repulse. Evening wind freshens a little

Saturday Apr. 25

Day half cloudy, Wind fresh. See a barkentine in P.M.

Edge of the water at the wharf

Sunday April 26, 1874

Day overcast, wind fresh and fair
In P.M. squally and are obliged to
ref for & main -

Monday April 27

Fresh breeze all day, weather tolerably
fair with passing clouds. Raining in P.M.
Under reefs in main & bonnet off
the jib all day -

Tuesday April 28

Dead calm, nearly clear, till late in
P.M. slatting badly. then a light breeze

Wednesday April 29

Day overcast wind fresh in
P.M. barometer falling, wind strong
See an unusually large num-
ber of gonies and fur seal -

Thursday April 30

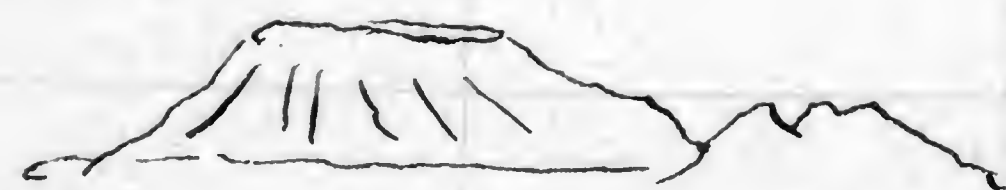
Blowing hard all day with heavy
sea. Under double reefed main-
sail reefed jib & foresail. Moder-
ates late in P.M.

Friday May 1

Weather unsettled, cloudy - occasion-
al wind & rain squalls but less
sea. Write up notes -

Saturday May 2

Weather fine but wind gradually dies
away. calm at night. Make land from
Cape Ommanay to Edgecomb about 3 P.M. A light
land breeze about 10 P.M.



Edgecomb to miles N by W com

11 mi
land of Edg com

All the unemployed civilians are gone
to Stikine for the Cassiar mines.

700 people are reported to have gone
to those mines. The traders here are
not making expenses - many of
the shops are closed and very
few skins come in. Deer are
obtained for \$2.00, worth \$2.00 a cord
from the natives. There are plenty
of halibut, salmon, etc. The
herring were here about a week ago.
They say they can be got during the
whole season at \$1.00. The
salmon are very good. The
pauwiff is in charge of the sea cow
fishing at Deep Lake point.

No trouble with J. Brown but a
small trader which went east
last in 1873. Brown was taken in
by natives through some
mistake. The goods here
Kutina Behance are expected.
roversels have come in here yet.

Come aboard to dinner. Taming

Monday May 4, 1874

Morning some fog soon clearing away.
day fine & clear particularly in the
evening. Go ashore very early and
shoot equal attitudes of sun per
time. but little chromatic shops
either before or after observations.

May 4

From Magnetic Δ to Second Astron^l Δ
V.A. 0 S. $85\frac{1}{4}^{\circ}$ E. 18 B

To door of Headquarters
V.A. $-1^{\circ} 07'$ S. $40\frac{3}{4}^{\circ}$ E. 74 B

To S.E. Corner of Mrs. Storch's
V.A. $-3^{\circ} 47'$ S. $27\frac{5}{8}^{\circ}$ N. 32 B

To S.E. Corner of Indian Church
V.A. $7^{\circ} 0'$ N. $23\frac{3}{4}^{\circ}$ N. 82 B

To S.W. Corner Office Quarters
V.A. $2^{\circ} 13'$ N. $5\frac{3}{4}^{\circ}$ E. 22 B

spoils the set. Observations for azimuth of sun from position on parade ground. Mark steeple of Indian Church - Adjust instruments - fix station by measurements. P.M. altitudes of sun for time, very good with certainty. Hope to go tomorrow morning over in detail. Breakfast with Major Cushing. Search for station mark but it is not to be found. The information given by Dr. Farnham is not correct as we are well past it exactly. Call on Father Miklos Kovacs who is in charge here. The bishop is responsible. I cannot find Sam Farnham at church. Go about 10 o'clock home. Come ashore again. Dinner with Major Rodman. 3 o'clock with Dr. Bricke. - The two boys come aboard in P.M.

Tuesday May 5

May holds on as before that we can not get our own meridian altitudes but go ashore about 8, hoping to get a set to be filled in P.M. Write up notes & go ashore. Azimuth of \odot with theodolite in A.M. & P.M. & magnetic azimuth also. Later complete altitudes. Buy two bearskins and a lot of Indian baskets mats &c. Whitford gives me a number of Indian stone articles. See Frohman

Ball

10.75
2.00
5.00

17.75 + 1.50

Mozes
Baker

8.00
13.25 - 1.50

34.00

11.75



A O O

A

10.75

walk down to the rock with Paddock.
Fill water. Come off at noon & P.M.
See about chronometer. Call on
Mrs. Cushing & take her some
apples. P.M. windy. Come off
& write up catalogue notes &c.

Wednesday May 6

Morning, cloudy & windy, later clears
and still later becomes more calm.
Go ashore & get magnetic azimuth
with iron & with theod. 97. Call &
P.M. Call in at head quarters and
see Whitford who has a few more
store articles - Buy the canoe -
Go down into the Indian village
see Sitka Jack & go into his house.
Back and go aboard. Supper
a good deal from a bad gun
shot and do not go ashore again
but write up journals &c. and
get notes up to date.

Thursday May 7

Morning cloudy, wind light westward.
Get out the large boat and go down
to Vitakari Rocks and take a
series of angles - then over to
Korlechuk Rock and take another
set - Back looking for Zambian
Rock but don't find it. Arrive
about 20 minutes past four - P.M.
Sitka Jack comes aboard with mail
and work.

Baker -

12.15

Dall

19.25

6.85

26.10

Woodr. 3.50

Noyes

20.00

13.15

6.8

12.55

Canoe 2.50

Sitka Jack 75

Baker 1.00

Noyes 20.00 - 1.25

25.00
1.25
1.10
1.15
6.85

May 7

Pay Sitka Jack 1.00

Buy of Baker .50

Report to Patterson via Davidson
with monthly Journ. & Rep. April

Dall 75c

50c

25.

75.

Friday May 8, 1874

Morning foggy with light rain squalls at intervals, wind light or none - Go ashore and fix position of the astronomical & with theod. & stable - Call on Philippen, Father Nikolai, & Whitford - Send Bailing out dredging with the boat - Going aboard canoe & spend some time out alonging & am curious then find the dredgings which occupy my whole time till 9 P.M.

Saturday May 9

Morning foggy - calm - seeing small rollers from the sea - Move the vessel to a more sheltered place, ~~go ashore & fix~~ Spent the day picking over dredgings, P.M. Mrs. Brooks, Cushing & Rodney come aboard with their husbands - and stay for an hour or so - Finish dredgings and after supper go ashore for a while - Rains at intervals all day -

Sunday May 10

Morning write letters - Father Nikolai comes aboard - after lunch go ashore & leave letters, then take a walk in the woods near the Indian River, getting a number of plants Put them in press P.M. with my Cushing

Baker subs. 20.30 -
13.50

6.80

May 9, Letter
Mother
Band
Shearers
Miss Noyes

Washing 6.50
Wood 3.50
Cunios 0.90

Day dull and cloudy wind light westerly - Go over the old castle - barracks &c - Get mail aboard in P.M.

Monday May 11/74

Morning clear & calm. Observations for time with sextant. At 11.30 weigh anchor and stand out by the Eastern passage. The Tsaritska rock is much further north and closer in shore than it is represented. Out to sea beating out of the bay with a light but rather steady breeze.

Tuesday May 12

Day clear and fine. Fresh breeze from the NW. Beating up the coast toward Cross Sound. The outer coast of Chichagoff Id is fringed with small long islands. Crillon is wrongly placed in the Coast Survey chart. The bearings do not agree well along the coast. Land less ragged than at Sitka, more low land, well timbered.

Wednesday May 13

Day clear & fine throughout, wind very light. Beating toward Lituya Bay all day. P.M. Get some altitudes on the peaks in the vicinity of Jay Cape.

Edge comb E by S $3/4$ S comp.
~~At the many Pt.~~ 9 by N Pt.
 Cross pt? N by N $1/4$ N
 Crillon NW
 Fairweather NW $1/2$ W
 Pt Fairweather NW $2 \frac{3}{4}$ W



Thursday May 14
 Morning and evening clear and fine but very light wind -
 Sound in 110 fms. off the great glacier. Work up toward the mouth of H'lituyah Bay as the natives call it. Work over notes.
 P. M. arrive off the mouth of the harbor and the natives make signs to us by shaking an old shirt apparently - Heavy swell and no wind. Breaking in each side of the passage and it would be very imprudent to go in. Lay off & on - catch some codfish - See Mt St Elias in the evening. Ducks & other birds flying about - Scenery very grand. Foreground wooded - mountains great masses of rock half veiled by ice, and glaciers on every hand.

Friday May 15
 Day somewhat hazy but clear and fine. Morning early very little wind, a little later a breeze from SW and we stand in to the narrow anchorage of entrance of Lituya Bay - just as the tide turns we run in pass the heads about 9 A.M.

May 14 -

34 1/3 Owt
 N 339. E
 vent 5.5'

July pt NE
 Cape Fairweather WNW
 Crillon glacier N by W

58 9h 37²
 40" 110 fms

P. M. St Elias W by N
 C. Fairweather WNW
 mouth of Harbor N by E 1/2 E
 Fairweather N by W 1/4 W
 Crillon NE

St Elias alt. 12,400 +
~~12,400 +~~
~~12,500~~
 14,000
 14,400

Fairweather
 70, 12, 30"

Interferer 14,30
 - 1,10 14,10
 - 2,40 14,40
 - 2,20 14,20
 - 3,00 15,20
 - 2,40 15,20
 - 2,50 14,40

- 2,46 2/3

Crillon -
 6, 35, 40

Cape Fairweather
 slipper shaped

22 0
 12 0
 340
 39
 128
 14

and anchor on the port hand
in $5\frac{1}{2}$ fms muddy bottom.
The water is discolored by the
melting ice of the glaciers and
is of a turquoise blue. Numer-
ous large pieces of ice from
the same source are floating
on the bay. The bar across
the entrance is a raised spit
ten or twelve feet high with
numerous rocks off the end.
The water on the other side
is much more cold. The
entrance is very narrow, not
more than wide enough for
one vessel to enter at a
time. The water shoals in
the entrance from eleven
fms to $4\frac{1}{2}$ and again deep-
ens to seven and continues
rather irregular between 7 &
 $5\frac{1}{2}$ well in. There is plenty
of water well in shore from
the anchorage on the W
side. The shores are all
wooded. Go ashore early and
set up Astronomical station on
the spit also a signal, behind
the huts of some natives who
are going from Sitka to Yakutat
and who are camped here with

Position of Anchorage -

Outer rounded rock above water	$SE\frac{1}{4}E$	S 56 E
outer rock breaks W side	$SE\frac{1}{2}S$	S 45 E
Astronomical Δ - SW by W		S 32 W
Village Δ	$W\frac{3}{4}N$	N 79 W
Mt. Fairweather	N by W $\frac{1}{4}W$	N 14 W
" Crillon	$NE\frac{1}{2}E$? N 50 E
Woody Point Δ	$EN\frac{1}{2}E$	N 69 E
W End Island	$NE\frac{1}{4}N$? N 34 E
E " "	$NE\frac{1}{4}E$? N 39 E

May 15th P.M.

from canoes and about 25 people
young and old. Then we on
a wooded point on the other
side of the bay. Take angles
from here on the ^{with Cassin's Theod. 3300} previous 2
signals and vertical angles
on Fairweather and Crillon.
Back to ship, seeing the colors
set and find that the natives
tried to come aboard but
were not permitted by the
male then went off angry.
Send Mr. Bailey & a man to
assist Baker if necessary. He
gets Lat, Time and azimuth
on Village Δ , with sextant

artificial horizon and theodolite
no. 97. Take some bearings to
fix position of anchorage.
Party come back about 5 P.M.
having succeeded very well.
Later the natives come off
and after a great deal of
coaxing we let the men come
aboard. Give them some
tobacco and biscuit and
after an hour or two they
go off tolerably well satis-
fied. Buy a Yakutat mat
from them.

Saturday May 16

Morning cloudy. Northerly wind -
quite moderate. The Indians
pack their canoes & leave
much to our delight.

Go ashore take magnetic azi-
muth and horizontal angles
with the two theodolites and
measure the base line and spit
with stadia. About 10 A.M. the
wind shifts so that we cannot
get out at high water. P.M.
take the boat and go up the bay
circumnavigate the island and
find no trace of monument or ob-
servatory. Return at half past
six. Captain gets some good fish.

Sunday May 17

Day dull & cloudy with southerly wind and some rain in P.M. Mend clothes, make out mess bill, write up notes and skin a few birds - P.M. Baker goes ashore with the mate

Monday May 18

Cloudy wind light S E by with rain at intervals. Work over computations and positions of Fairweather and Crillon. Get Mr Bailey to haul the dredge in the P.M. - a tolerable return Mr Baker catches a large halibut in P.M. Evening wind variable light clears a little

Tuesday May 19

Morning cloudy, wind light WSW to W. Get under way about 10 o'clock wind freshening a little and about a quarter of eleven stand out to sea pass by the entrance with out trouble as the tide had nearly ceased ebbing - Our course out was SSE $\frac{2}{3}$ of the way toward the eastern rock 100 ft on our beam on which we had least water 6 fathoms going in our course N $\frac{1}{2}$ W $\frac{1}{2}$ of

May 19

for
crillon
vests

Mt Fairweather N $\frac{1}{4}$ W mag
Astr & W end D - N $\frac{1}{4}$ E by N
Jcy Cape E by N $\frac{1}{2}$ N
Cape Spencer E $\frac{1}{2}$ N
Cape Fairweather N $\frac{1}{2}$ W by N

N $\frac{3}{4}$ E
E by N
E $\frac{1}{4}$ N

32.31.30 = betw Fairw & Astr A

32.57.00

33.05.40

33.10.40

Course NW $\frac{3}{4}$ N mag -

Vest on Fairweather

5.44.40

5.46.30

47.40

48.20

48.30

48.20

48.30

49.10

N -

N $\frac{1}{2}$ E

N $\frac{1}{4}$ E

1.22

Crillon N E $\frac{1}{4}$ E

4.46.10

4.46.20

1.35

4.45.50

4.46.10

4.46.20

4.45.40

4.46.30

4.45.30

4.45.30

4.46.35

4.46.30

34.40	29.00
34.40	29.10
34.30	28.50
34.35	28.45
145	225
34.36	56
28.56	25.40
	2.50

the way from western rock least water $4\frac{1}{2}$ fathoms. The end of the spit shoals off gradually while the other side is bolder. There are no low water rocks off shore east of the cormorant. The extreme point of the spit curves to the south with rocks west of it.

fairway line in, when off the entrance make the top of the easternmost rounded low woody hill on the west shore of harbor bear N.N.W. and keep on that line until past the point of the spit then bear up two points to the westward -

From the large rocks on the spit to the end of the reef = 2x Large Rocks to h.w. mark on end of spit. Large Rocks to low = dist from LR to

cormorant Rock divided by 2 - or whole dist = 4x LR to h.w. the two paps & shipper shaped Cape Fairweather make good land marks for the harbor. Land about entrance to harbor makes a well defined low point see top opp page

May 19 P.M.

Pt. Fairweather N.W.
Mt " N by E $\frac{1}{2}$ E
Harbor Pt E by S
Pt on with C. Spencer E $\frac{1}{2}$ S



Crest of Fairweather

P.M.
C. Fairweather E by S $\frac{1}{4}$ S
Crillon E $\frac{1}{2}$ N
Mt Fairweather E $\frac{1}{2}$ E
Small gorge & glacier N $\frac{1}{2}$ E
Humboldt Plateau N.W. by N
Pt. J. Dry Bay N.W. by W $\frac{1}{2}$ W
High land near Phipps Bay N $\frac{1}{2}$ N
St. Elias then N $\frac{1}{2}$ W
Immediate shore woody very little low land near glacier

Peaks are Fairweather, small double Lituya, small single, Crillon high single, La Perouse high split - North none of any height - Till. Elias - Jay Bay to X nine sea glaci

The land hence to Cape Fair-
 weather is near the shore
 low, heavily wooded, and
 curves in making a shall-
 low bay with even shore
 & evenly low hilly land
 behind. Two glaciers on St
 Fairweather ^{begin} me coming to
 the sea. Two north of Bay
 Cape and five in Fitts Bay
 make nine, one in small
 gorge in sight behind Cape
 Fairweather and then a
 very large one with a gap
 in the mountains now
 3 miles ^{wide} ^{upfront} on the north with a low narrow
 strip of shore & trees, then
 a low point ^{behind} ^{branch} of
 mts not high on the other
 side is Dry Bay. Feberk-
 of it gives a very poor idea
 of it. La Perouse is much
 better. Water discolored
 ten miles off shore from
 Cape Fairweather. See
 herring & whales.
 Crest of Mt Fairweather
 shouldered on each side.
 Evening see St Elias 40' high.
 Weather clear, wind fresh
 North west.



Wednesday May 20

Called at 4 A.M. to look at the Bay we suppose to be Dry Bay of authors. The great glacier comes down, covered with earth to near the beach and not extending quite to the sea - a terminal moraine covered with trees and forming a small bluff 30 ft high rises directly from behind the beach and is broken by several gullies from which water issues. Midway to the glacier the beach is formed of boulders & there is only grass on the moraine. Then comes a bunch of hills

rocky the rest  a glacier

green with trees on the lower slopes these gradually slope off to the northward with small creeks here & there to the low islands of La Perouse but no large streams appear to come in

Take several soundings - acc. opp. and many notes & hearings after breakfast observations for time - with repeated bearings & notes till noon obs for

May 20 - 6 A.M. -

C. Fairweather E $\frac{3}{4}$ S
~~Cape~~ Spur NE $\frac{1}{2}$ E
 W edge glacier NE $\frac{2}{3}$ N
 low pt N $\frac{1}{2}$ W
 Elias W - N
 Mt Fair weather E by N $\frac{1}{2}$ N
 Cillon E
 about 3.5 fms
 6.30 A.M.
 Fairweather all E $\frac{1}{2}$ S
 Cape E S E
 W edge glacier NE
 Sounded in 3.5 fms

10 Fair weather E $\frac{1}{2}$ N 7.30 A.M.
 Cape E S E
 W side glacier NE $\frac{1}{2}$ E
 34 fms

Time
 Mt Fairweather E NE $\frac{1}{2}$ E
 Cillon E
 Wedge glacier NE shore 3 miles
 Mt St Elias W by N $\frac{1}{4}$ N
 Eastern creek by Bay N $\frac{1}{4}$ W
 Top of middle mountain NE by E
 Course N W by N $\frac{1}{2}$ N - 6 N
 Indian headland W $\frac{1}{2}$ W 6 miles?
 High land by Bay W by N $\frac{1}{4}$ N
 Outer edge low land W $\frac{1}{2}$ N 10.11 A.M.

at 10.11^h tack NW $\frac{1}{2}$ W 10.30 tack
on entering water - (12 $\frac{1}{2}$ fms
last glacier NW by W $\frac{1}{2}$ W. 20 -
NW - 1 $\frac{1}{2}$ mile - 19 fms - in 10.37)
Course SW $\frac{1}{2}$ S - to SW $\frac{1}{2}$ W by S - SW
11.21 tack NW $\frac{1}{2}$ W (one opening
at W end of Bk 20 - one two miles E of
this - 1st NW by N. 3 $\frac{1}{4}$ N. and N by W -
St Elias W by N $\frac{1}{2}$ N. Fair weather (19)
Head of slope W of Dry Bay inside NW $\frac{1}{2}$ E
(~~12 = noon~~) tack SW by W $\frac{1}{4}$ W
30 fms. Elias W by N. Fair weather E
by N $\frac{1}{2}$ N. Bk 20. N.W. West main
Bk slope E side Dry Bay NE by N
W side glacier other Bay ENE
Log 9 miles at 3' of 12 - (about noon)

Wed May 20 -

Latitude - stand off & on
to examine shore which
agrees much better with
La Perouse than Libentoff.
Continue bearings & observa-
tions until 8 P.M.

Wind light & very variable all
day. Early A.M. clear later
hazy - weather quite warm
therm noon 63° in shade -

Thursday May 21

Morning wet and rainy. Wind
light southerly and thick fog
stand along the coast and
pass Ocean Cape which is
a gravel bluff about 40 ft
high with rocks off its
S.W. end for $\frac{1}{4}$ of a mile
West of this headland and of
Cape Phipps and NW of the
latter the water is shoal for
quite a distance and breaks
for half a mile off in heavy
weather. At 4.15 P.M. anchor
in Port Mulgrave. The little
schooner Nellie Edis. of Phipps Capt
Philipps and two crew. The
crew is laying here trading. He
has not done much - The na-
tives crowd around and we at
old Phatay & his two sons come

May 21. 12.51 P.M.
Ocean Cape, N $\frac{1}{2}$ W 2 miles
edges low land E by N.

2 miles W of Ocean Cape 13 fms

aboard but keep the vessel
away - Later heavy rain
squalls. Pt Turner is a
low flat spit from which
the timber has been cut.
There is a reef off its S.W.
end for 300 yds to - out
from the shore, as we
bore to, to enter an
other reef close to the S.E.
end of the point not deep
water between it & the
spit close on to the beach.
There are more reefs on
the East side which
assist in making the
harbor. All the land is low
and heavily wooded with
many channels running
in every direction. Opp. the
land is flat to the base of mts
apparently horizontally stratified rock.
There are nine youths here and
about 100 persons of Yakutat tribe

Friday May 22

Morning early very clear but very soon clouds over calm or light air - Baker goes ashore to get altitudes on Mt. Elias. Write a letter to go down to Capt. Phillips.

{ Tide turned flood at 1.37 P.M.
 { Schomer Louisa Bourne was in 1868.
 Go ashore & take telemeter observations at low water on the reefs. Baker & Noyes get magnetic azimuth, poor time with Kent's sextant. Tolerable latitude. sext. - About 1 P.M. it commences to spit and later in P.M. rains more steadily. Work over chart of reef in Norfolk Sound - & finish it.

Saturday, May 23

Morning raining hard with S.E. men work over plat of harbor and projection for coast line. Also review computations of magnetics. About 2 P.M. wind changes and it clears away, at five P.M. hardly a cloud in the sky. Baker & Noyes go ashore and get vert. circle obs. for time, sextant lunar obs. for time. Theodolite astron. azimuth. Later verticals on Mt. Elias fair weather & with vert. & horizontal angles on Mt. & E.

From S. Reef

Old stump on beach	S 56 1/2 W	✓	184 B
Bottom beach	S 58 1/4 W	7 1/2 ✓	154 B
Lw. end of spit	S 18 1/2 W	✓	171 B
W end outer reef	(S 74 1/2 E)	6 1/2 ✓	300 L
E " " "	E 1 N	✓	295 L
S pt upper reef	N 21 1/2 W	✓	200 L
SW pt " "	N 34 1/2 W	✓	173 L
NW pt S reef	N 62 W	✓	82 B
SE " " "	N 69 E	✓	83 B
SW " " "	S 53 W	✓	79 B
Edge " " "	N 28 E	✓	34 B
SE pt " " "	S 85 E	✓	98 B
Beach lw. spit opp	S 49 W	✓	126 B
" " " "	S 34 W	✓	102 B
1 fm water at lw off S reef	S 65 E		54 B



Canoes, arrows & bows for other quiver. Also umbra arm seal skin mittens and boots. Large mittens & small canoes speared with hot water.

Bill spoons. Knives & handles for women ring in nose and ^{hairs} rim in lip. earrings. Halibut & cod. sticklebacks & eel. Evening trading with natives for curios.

Sunday May 24

Morning light clouds & hazy but
sun well out. The Sch. Nellie
Edes leaves early in A.M. Capt
Phillips thinks he would have
had trouble if we had not come
in. The whale boat taken by
Capt Herndon's deserters¹⁸⁷⁴ is
hidden in the woods and
the natives told Capt Phillips
look that the six men were
killed here. Baker & Hayes go
ashore for astronomical work
and get equal sextant altitudes
of sun for time A.M. & P.M.

Vertical & circummeridians
for latitude. Astronomical az-
imuth by theodolite No. 97
at low water go ashore on the
reef. Found *Onchidella borealis* &
Siphonaria thorata & *Urosalpinx*

also a dog all over with
knobs - *Schizothaure* *Pinctura* &
Siphonaria spp.

During P.M.
evening very quiet a number of
ethnological articles -
or was there - Wind light all
day.



W.M. 15 M

Port Mygrave Village
from the anchorage

Sunday May 24

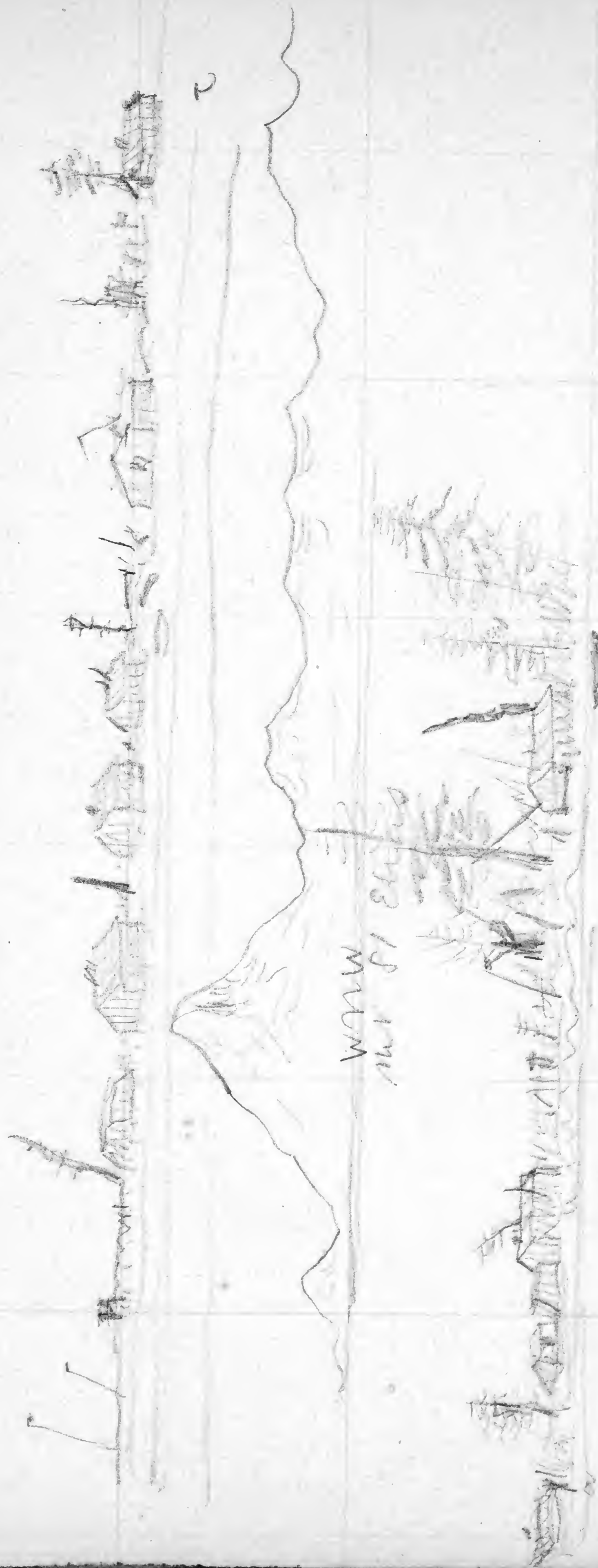
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and get equal sextant altitudes
of sun for time A.M. & P.M.

Vertical & circummeridians
for latitude. Astronomical az-
imuth by theodolite no. 97.

at low water, go ashore on the
reef. find *Onchidella borealis* &
Siphonaria thurstoni and little else.

(25) also a dozen all over brown & white
knobs - *Schizothaure* *Punctum* &
Siphonaria spp. in *Clavella* and
other species.

During P.M.
I am writing by quite a number of
ethnological articles - full moon
or less cloudy - wind light all
day.



Port Mulgrave Village
from the anchorage

Monday, May 25, 1874

Morning cloudy, but fair. Light northerly wind. About noon clears considerably - afternoon pleasant. Morning take telemetric observations for current, north circummeridian altitudes with vertical o. for latitude. Pull. Sound the harbor & approaches. When done send Mr. Bailey dredging but the returns are very dry - after supper trade for curios. Light till ten o'clock.

Tuesday May 26

Morning cloudy, wind light northerly, at 7 AM weigh anchor and stand out of Port Mulgrave with a very light wind. Get 22 fms close in under Cape Phipps. See a good deal of ice coming out of Disenchantment Bay. The table land on the NW side of Bering Bay is principally debris from glaciers but the present ones seem to stop short near the bases of the mts. The table land has a good deal of snow on it with a few trees here & there in small strips near

8.15-

Mr St Elias bore

at Mt East

and "

all fair weather

NW $\frac{1}{2}$ N

N by W $\frac{1}{2}$ W

N by W $\frac{1}{2}$ W

E N E $\frac{1}{4}$ E

The water and small streams coming through the beach. Pass through a bank of fog in P. M. but clears entirely afterward - Wind fresher in P. M. - Work over notes & sounding book. Sketch Elias

Wednesday May 27

Morning clear with some fog
P.M. quite clear - Wind light
or none - Work over plat
of Portmugrave - P.M. about
5 o'clock in Lat.

and Lon Sound
and get no bottom though
in the wake of the so-called
Pamplona Rocks or bank
Get across of altitudes to fix
our position - an agim-
uth on Mt. St. Elias which
bears N by W by compass &
some sextant altitudes on
it for height - Later a
little air springs up

Thursday May 28

Cloudy fresh easterly wind with
a good deal of rain and a heavy
swell - Work over sketch of
Lituya Bay - About 9 P.M. raise
Middleton Island which is
long and very low as we see it -

Friday May 29

Cloudy, rainy wind light N E - Beat-
ing up to Port Elches - A native comes
off to pilot us in but is of very little
use - About 3 P.M. we anchor in
the small harbor, least water go-
ing in $2\frac{3}{4}$ fms, in the narrow

Sound

	5 - 21.30	
25	22.15	50
33	22.50	50
33	23.23	50 -
40	24.03	50
44	24.49	50
47	25.34	50 -
21	25.55	50 50
53	26.48	50 -
54	27.42	50
56	28.38	50 -
57	29.35	50
60	30.30	50 6
	5-75	
	no bottom	

entrance more water ranging
from $4\frac{1}{2}$ to 7 fms - anchor in 6 fms
a little - Hemingway comes off to
see us - He is the agent of H.K. Co
here and was for a long time 3 years
at a station on the Kluk river in
Cook's Inlet - There are five set-
tlements on the Bay - The largest is
at ~~the~~ Chigna where Shipper has
a post - The natives are eskimo &
well disposed - Those here are Chris-
tianised many of the others heathen
They bury the dead. The Copper
River Indians come here to

Trade, also Indians called Kilcat
(?) from a village one days travel
beyond the mouth of the Atna R.
The Atnas get their Copper from
tribes in the interior. The shoal
between Whangamoot & the main
is mostly dry at low water, the
bar part dry & part always above
water even at high tide.
The natives hunt otter off Cape
Hinchinbrook where the gulls
breed - Otter, mink, brown bear
& foxes are the animals of this district.
A few porcupines. The natives
make catfish skin parkies their
only kind - use bidarkas of seal
skin, very broad - bound with
walrus hides & sewed with walrus
hide threads. They make red
jockey work & live in dry salmons
which are poor, arrive in July
& August. There are clams in
the harbor. Cod & flounder but
no halibut, a few rock cod -
Coldest last winter + 12° - highest
in May - about 70 in shade. Po-
tatoes & turnips grow the last week
Has been here since last June. Use
the Russian language in trading.
The Yakutat natives come up once
a year - Sitka Chief. Shenai last

year. The local natives are much
afraid of them. Gave me some de-
tails of Knik River. Cuts through
a chain of Mts - not high. Behind
this country very level with large
lakes. No inhabitants on upper
Knik & Inchtano Rivers. Land
about them low & nothing. Post
on Inchtano 30 miles above the inlet
reached in bidarkas - at Knik
river about twenty dits -
The Kenai Indians called Knaya-
khotana. Birchbark used in the
rivers by both these & Copper River
natives but only canoes dug out for
travelling in. Copper River natives
said to burn their dead - about the
inlet they bury them. Posts at
Port Graham - Kaknu R. Inchtano
and Knik Rivers & Coal Point -
of H. K. & Co. Copper River Indians
call themselves Aktena.
P. M. rainy & foggy - wind light.

Saturday May 30.

Morning & P.M. rainy, cloudy & fresh NE wind - Work over charts in A.M. P.M. grafter clams but the low water is not low enough to get any - Sandell - Bailey dredging but the returns are small -

Sunday May 31

Day with succession of rain squalls and clear intervals even-
ing clear & calm - Wind NE to
SW irregular - light - Observa-
tions for time latitude, magnetism
& solar azimuth. Go ashore &
up to the town, see the Copper River
Indians who came last night. They
are typical Tinnah. call them-
selves Ah-tenah as I conjectured
the Ugal'entzi are a branch of the
Chugatchigmit & call themselves
Chickahamut. Their language is
slightly altered from the original
Chugatch. Get a piece of native
copper from the Ah-tenah. Many
of their words are the same as the
Tananah River Indians. Return
to vessel. Evening go ashore again
but find no fossils. Capt. Baker
and boys go to town & the Ahnas
come aboard to look at the ves-
sel - See a halibut & some salmon.

Monday June 1, 1874

Morning clear. Later light clouds
fresh irregular wind. Observa-
tions for time latitude magnetic
& solar azimuth. About 6 P.M.
try to get out of the harbor but
the wind dies away and comes
out ahead and we have to an-
chor again. Send Mr. Bailey
out dredging & this time he strikes
the right spot. Work over vouchers
Cash \$88.00 coin 13.50 currency.

Tuesday June 2

Start in at all but are obliged to
anchor for want of wind. Find
an 8 foot coral reef at a distance
of the last Id on the starboard
hand going in. 2 1/2 fms inside of
it & close to it. Later start a
gain & this time get out with
very light southerly wind.

Day cloudy. Work over dried
guys all day.

Wednesday June 3

Cloudy with some sun in P.M.
Wind light NE at times all day.
Work over vouchers. About
noon raise Middleton Id which
is quite low, flat or nearly so on
top with the W point & shore
for some distance north of it.

2.13 P.M.

Case Clear W 1/2 N
1/2 S 1/2 E by E
1/2 by E

Shunk cabbage leaf

47 in long

24 in wide

Stalk 4 1/2 in

perpendicular cliff say 100 ft
high of clay rock containing
pebbles & stones. covered with
a deep layer of sand and several
feet of turf. The tide sets
strongly round this Id. Rising
tide N.ward on W side; heavy
bed of kelp occupy right stand in
but dare not go far and anchor
at 4 P.M. 11 1/2 fms hard bottom outside
the kelp & a mile & a half west of
the shore E by N from us. The
soundings for four miles on this
line do not exceed 18 fms. see a
good deal of driftwood - afloat. E by
ashore. Observations for time with
sextant. Got a great many gull
& goose eggs, some plants & two seal-

The seal are small hair seal
 + haul up here in great numbers
 The Sch. Northwestee once (in 1870?)
 spent some time sealing here for oil.
 The shore where we landed is
 tolerably low, with sand beach.
 See a number of killers after the
 seal. Come off after rather in-
 different observations interfered
 with by wind - at 6.30.

Thursday June 4

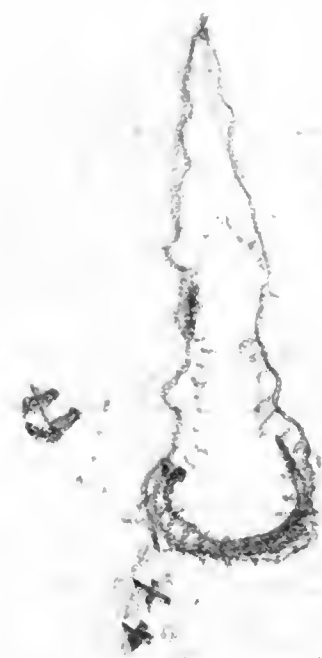
Morning clear & fine wind
 rather fresh and more to the
 northward. Observations for
 time. Later, swell begins to heave
 up and the party comes on board
 get under way at 11.30 and
 running on a true West course
 get the latitude a little later.
 The island about the locality
 of the station is less than a
 mile wide - near the southern
 end perhaps twice as wide -
 The south end is the highest
 with abrupt shore, a narrow
 strip of low land in the edges
 the whole becoming more
 low to the north end which is
 near the sea level. The top
 has some knolls on it the
 edges of the cliff are pretty

At anchorage

Astron Δ $1\frac{1}{2}$ miles ESE mag
 S ~~pt~~ S by E $\frac{1}{4}$ E
 End of breakers S $\frac{1}{4}$ W
 North end Id. NNE
 End of point - S $\frac{1}{4}$ E
 Cape Clear W by N
 NE end Montague Id NW
 W end Ninchinbroke Id NW by N

12 M -

N end Id - NE by E
 S " " E
 S " reef E by S $\frac{1}{2}$ S
 Course SW by W - 6 miles



even at the top. There
 is a reef, breaking in
 patches, entirely round
 the east side, with a
 heavy swell on the
 breakers were a mile
 and a half from the
 Id and the water inside
 was quite smooth and no
 surf on the beach - The reef ex-
 tends a long distance off the
 south end but only a short
 distance from the north end
 we saw no breakers or rocks

in the position assigned
on the chart to the Mountain
Rock. After passing out
of the lee of the island a
very heavy lumpy sea
came rolling up from the
SE with evidences of cur-
rent - but little wind.
Evening cloudy. Passed
several tide trips in the
night.

Friday June 5

Morning cloudy, fresh NE
wind, some sea, in still
work over ranchers.

P.M. - raise land in vicinity
of Kodiak - at 10 minutes past
P.M. anchor off Chugafka Cove
Kodiak. Later fog & rain. Catch
about 100 codfish from the vessel
after clearing up decks.

Saturday June 6

Morning early, cloudy with rain, at
10 A.M. begins to clear off and by
noon is quite clear. Go ashore in
the A.M. with the mail & see Sheeran
& Sol. Sharpser, get the promise of a
few ethnological things from them.
See the drunken old dealer Shuskin
who has sold the book I was in
search of to Pinak for a bottle

of rum - Go aboard with Charita
hoff & pump him for Hydrograph-
ical items - P.M. observa-
tions for time & rate chronom-
eters, and astronomical azimuth
on flagstaff of Ice Co's Building.
Mr. Bailey dredges some very
good things - Later Capt
Herendoot & Nozes go to
town - I remain and pick
over dredgings on board.

Sunday June 7

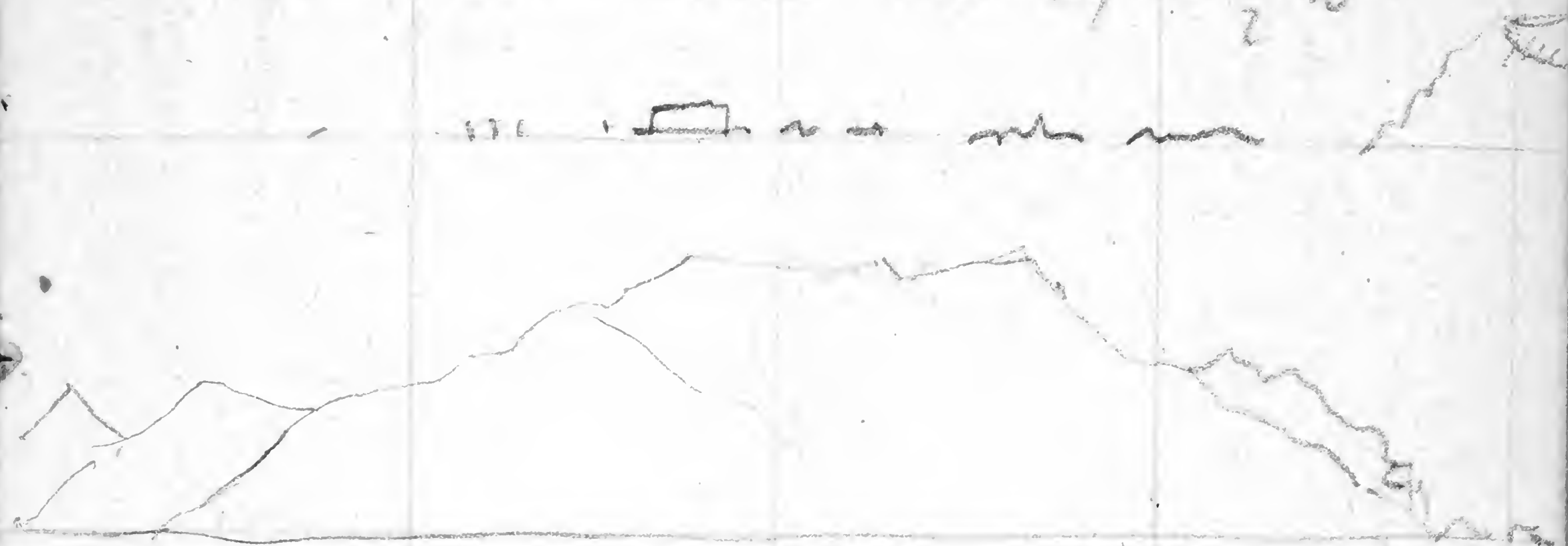
Morning clear & fine - obs-
for equal altitudes A1 &
magnetic azimuth. Hewitt
Sharpser, and Sheeran (Luh)
come aboard to lunch - P.M.
fix position of station. Go
up to town - Get some eth-
nological things - Examine
Govt. buildings with interest
sign certificate of their con-
dition & that there is no prop-
erty to be transferred.
Get some plants, the mail & go
aboard - After supper go af-
ter a row & get 2 kps & the
remains of a bird skin to place
after several ineffectual at-
tempts - Aboard -

Monday June 8
 morning cloudy fresh SE wind
 about 9 A.M. stand out of
 Kadiak and steer to the North
 ward. Later wind shifts to NE
 and we go along at a good jib
 Look over compass, write up
 notes - play cards in the P.M.

Tuesday June 9
 more or less cloudy & foggy all
 day with some rain. Wind
 light with an old SE swell
 Over haul plants.

Wednesday June 10
 Early A.M. cloudy with rain
 off the SW point of Chirikoff 2
 two miles. Wind very light S.
 at noon get altitudes for deter-
 mining the latitude. Being obliged
 to anchor on account of light
 wind & strong head tide eddy to
 SW. At 1 P.M. heave up and
 stand into the anchorage - and
 at 2.30 anchor in 6 1/2 fms sand
 off the village. Go ashore & get
 observations for time and azimuth
 and various bearings to determine
 position of reefs & shape of island
 Village deserted & in ruins. See
 Duck's glaucous gull, ravens, eagles
 Puffins murres, Mel. insignis & oodow-
 ichensis

Valley
 Settlement N by E
 S 2100 NE
 W Pt NW 1/2 W
 Rks into Round Rk nearly W 1/2 W



10 10 A.M. W Pt N N E 1/2 E 1 1/2 miles
 S 2100 E N E 1/2 E
 Valley N E by E
 Pt N 1/2 W
 Settlement N 1/2 W & S Rks
 Pt N N W
 N End 2d N N W 1/2 W
 Single R N W by 1/2 W
 Large Rk N W 3/4 W

Many marmots (*S. Parryi*) & see the track of a dog - but nothing else alive! Skelter tolerably good except for SW and west wind water shoals gradually from 14 $\frac{1}{2}$ between the reefs. See the Semidi Islands from the bluff at 4 P.M. go on board again - P.M. more or less cloudy -

Thursday June 11

Morning early foggy - later clears away with broken clouds. P.M. nearly clear, evening cloudy again. Wind light all day S & SW.

Morning obs. for time & magnetic azimuth noon obs. for latitude & shore line & to fix reefs. P.M. equal altitudes for time. Send Mr. Bailey dredging & get very little, among others a *Bela?* like my *S. micachels* sp. but blind, white, larger and with smaller apex, the shell of about the same color.

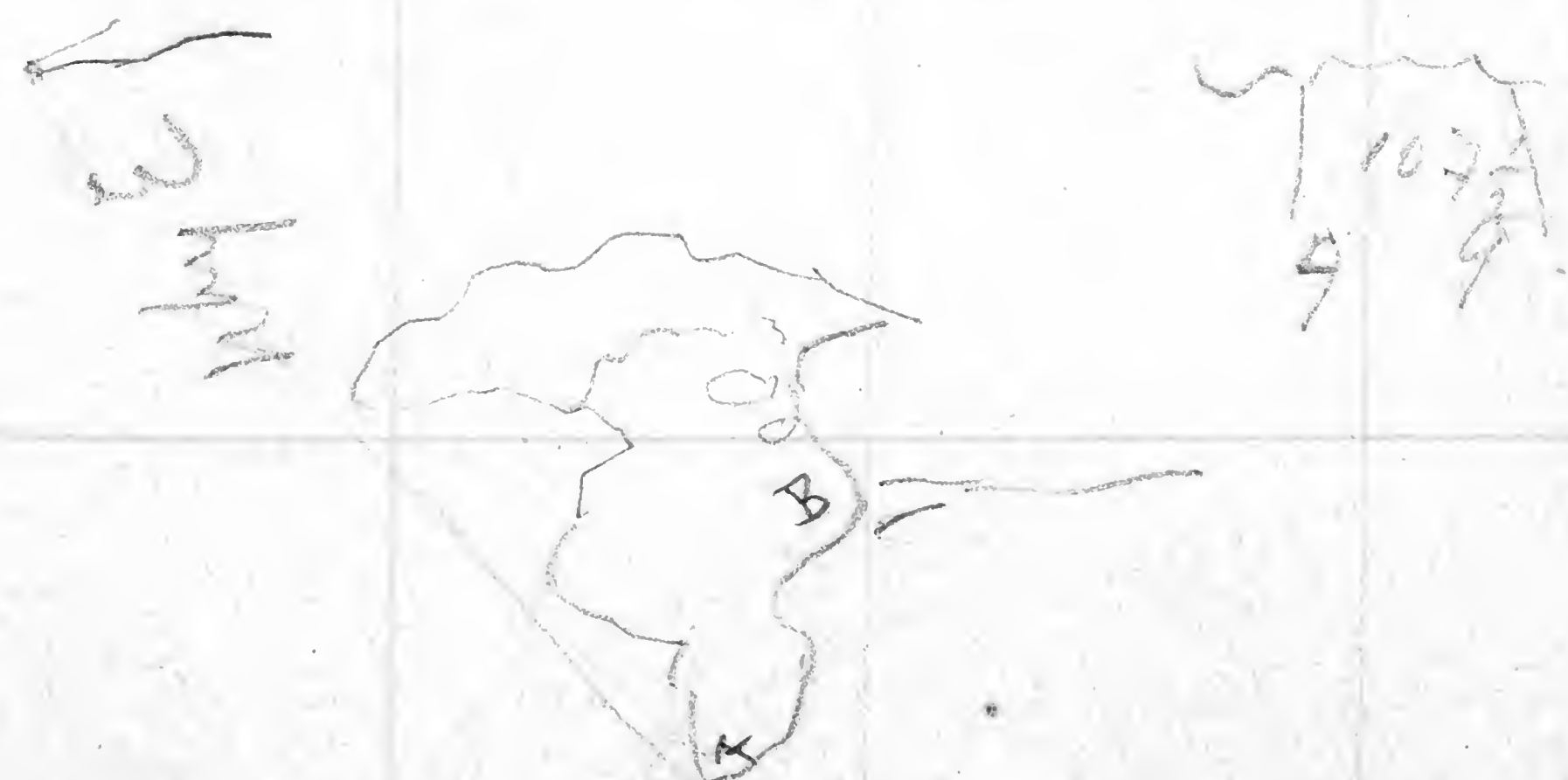
About 4 P.M. up anchor & stand out of the anchorage. See one dog very wild - The water betw. rocks & shore of SD is



From anchorage noon
Round Rock. N.W. $\frac{1}{2}$ W
N End (low pt) N.W. by N $\frac{1}{2}$ N
Settlement. N.W. by W $\frac{1}{2}$ W
S. pt. N.E. by E $\frac{1}{4}$ E
W.P.R. N.E.

Dir. of S reef (E.S.W.) $\frac{1}{2}$ mile N.N.E.
Round Rock N.W.
W.P.R. reef E $\frac{1}{2}$ N 1 mile
S. pt. East

WTS close with each other E $\frac{1}{2}$ N
End W.P.R. reef



very shoal - kelp & rocky

Friday June 12

Morning with light clouds. Pull nearly clear. Wind light all day. At 8.30 A.M. Log read $2\frac{3}{4}$ miles at 9.40 A.M. 5 miles at noon $9\frac{3}{4}$ miles. Course at 8.30 W by N by compass. at 9.40 change to N.W. by West till noon. 8.30 A.M. observations for time to fix position for bearing on islands - at this time.

SW islet bore W by N -
Islets off next island W by N $\frac{1}{2}$ N
E end last island on with end W by N $\frac{1}{2}$ W
E end next on with end W by N $\frac{1}{4}$ W
Islet in Pass N.W. by W $\frac{1}{2}$ W
E end next island N.W. by W
rock off NW island N.W. $\frac{3}{4}$ W
N end Chirikoff Id N by E $\frac{1}{2}$ E
S " " " " 2 by N

Chirikoff subtended an angle of $12^{\circ} 24'$ at the beginning & $12^{\circ} 09'$ at end of observation.

Semidigroup between $26^{\circ} 36'$
West 1st rock 20.30
1st bunch of land 10.09
ended at 9 A.M.

At noon observations for latitude.

a) Outer Rock bore W by S $\frac{1}{4}$ S.
b) W end South Id W $\frac{3}{4}$ S

8 A.M.

N end Chirikoff Id N by E
S " " " 2 by N $\frac{1}{2}$ N

Northeast Island Aghiyuk
Small island SE of it Ahghik
Next one (astr) Aronik
Next S Keelagagikh
One in Pass Sukhlik
South Island Ahlikkeemik
Outer island Kikloot
Inner large Chowee-et
NW Island Kateekhik.

Eskimo names.

Natives left Chirikoff in 1870
Schooner came there in 1872

C/E end S Id with W end Chowee-et 2 W $\frac{1}{2}$ S
ACE " Chowee-et bore W by N $\frac{1}{2}$ N
Rock a fraction N of this W by N $\frac{3}{4}$ N
E end Aghiyuk Sukhlik W by N $\frac{3}{4}$ N
E end Sukhlik W by N
W end Keelagagikh W by N $\frac{1}{2}$ N
E " " N.W. by W $\frac{3}{4}$ W
W " Aghiyuk W by N $\frac{1}{2}$ N
E end " ? or lowland N.W. by W
Easternmost land N.W. $\frac{5}{8}$ W
N end Chirikoff visible 2 $\frac{1}{2}$ N
S " " " 2

over.

As we continued on our course the following bearings indicate when two points were on with one another.

g + e	Why $N \frac{1}{2} N$
a + b	SW $\frac{1}{2} W$
f + i	WNW
h + e	Why N
a + d	SW by S
Rock + d	Sky W $\frac{1}{2} W$
Rock + b	S $\frac{1}{2} W$
j + l	NW
f + d	S $\frac{1}{2} W$
f + j	S
W end Keeleetagihk + f	WNW
" Sukhlik + d	Sky E
W " Keeleetagihk + l	

Chowceet + Kateekhuik upon SW by W $\frac{1}{2} W$
 Enter the strait between the islands (which are composed of granite in vertical beds & wavy on top) and the weather being fine anchor in 12 $\frac{1}{2}$ fms near the strait between Anouik + Keeleetagihk. The soundings range from 22 when past the end of Sukhlik to 10 inside of us - bold water, precipitous rocky shores & no hidden dangers. There is a bay on the S W side of Chowceet

which the natives say affords good anchorage but easterly & northerly winds. There are seal sea lion & many birds - no sea otter or other furs. The party were left here in March by the Annie and if she does not take them off will go to Chirikoff Id. in August. They are hunting walrus & will find salmon at Chirikoff in August. No fish or very few here - Tides run up to the westward & fall to the eastward in the strait rise about seven feet. There are no streams & hardly any landing places.

Evening calm

Saturday June 13

Morning clear & light S W wind. Complete equal attitude of last night. Go ashore & climb a mountain on Anouik Island, & take a series of angles & bearings on various islands. Run a base line about a mile long close to the vicinity of the astronomical station and here take another series. Get

Circummeridian observations for latitude and observations for astronomical & magnetic azimuth. Go aboard & get things there over to Chouchoct Island & take another set of angles & bearings, back to vessel and weigh anchor about half past four with a moderate breeze and stand over toward Chigik Bay. The tide was low last night at 4 A.M. and today about 4 P.M. High water comes about 10 P.M. hence as the new moon crosses the meridian here at 5 P.M. the establishment will be hours. Get some dredgings.

Sunday June 14

Very light wind in A.M. - Get things early in A.M. Knock about until 10 A.M. we get latitude, and then have light & puffy winds till late in P.M. Cannot get into the SW bay at the head of Chigik and therefore anchor under the head east of it. Natives of a hunting party in

NNW - W Agluk & Agluuk open
 { W end Agluuk N by E 2 miles
 { N W end N by W $\frac{1}{2}$ W -

N end Agluuk
 W end Agluuk
 outer 20

N by E
 E $\frac{1}{2}$ N
 SE

the bay come off & promise to bring aboard some deer meat in the morning. P.M. dull & cloudy. Fresh south & SW wind in squalls.

Monday June 15

Blowing a southeaster outside. Raining & foggy all day. We have sketches of Middleton & Chirikof islands and magnetics. Buy a lot of deer meat from Ivan Petukoff who with a party & his schooner the Nikolai are hunting season here. P.M. light. Hear the howl of wolves. Good many deer but fails to kill one. The short light runs in for four or 6 miles. The entrance $\frac{1}{4}$ of a mile wide only.

Tuesday June 16

Cloudy wind light. Run the shoreline of the anchorage.

P. M. plat the same -

Wednesday June 17

Day rainy & foggy with fresh
SE wind. Mr. Baker goes after
clay to the pt. Herenden after
fossil leaves both tolerably
successful - work over
platform - Herenden Island.

Finish plat - Buy five
quarters of reindeer meat
from the natives.

Evening about 10 P. M. clear
up partially with strong
Westerly wind.

Thursday June 18

Cloudy, a little sun early in the
day with high variable wind
Obs. for time with sextant & bar
local clouds in P. M. P. M.
observations frustrated by cloud
rain at intervals. Go ashore
& collect fossils & pack them
in A. M. P. M. work over
sketches of stations.

Friday June 19

Day variable mostly broken clouds
with occasional rain & fresh
SW wind. P. M. late, heavy
rain & squalls. A. M. obser-
vations for time. Latitude fru-
strated by clouds - P. M. hor.

From under High Bluff
June 19th P. M.

Edge middle Pena	N 32.0. 180
Edge Butkoom	12.18 245 192.17
Edge	30.53 262.4 54
N. Bay 2d	40.50 271. 221.
S. Little 2d	44.25 76.4 224.25
Little 2d	45.35 77. 36
Astr. Δ	116.41 296 41
	8330.74

isontal angles &c for getting
the latitude by an assumed
position - ended by rain.
Send Mr. Bailey out dredging
but he does not get much.
at 11 A. M. sound the air
change with Capt. Herenden
Saturday June 20

Day cloudy & rainy - Work over
magnetics & drafts of stations
Clears off in the evening and
we go ashore and get latitude
by Polaris & time by ~~chronometer~~ ^{chronometer} and
attempt azimuth but the damp-
ness is so great that we give
that up - Return about 1 P. M.

Sunday June 21

Rainy all day - Blowing a SE
tar outside - work over descrip-
tions of stations -

Monday June 22, 74

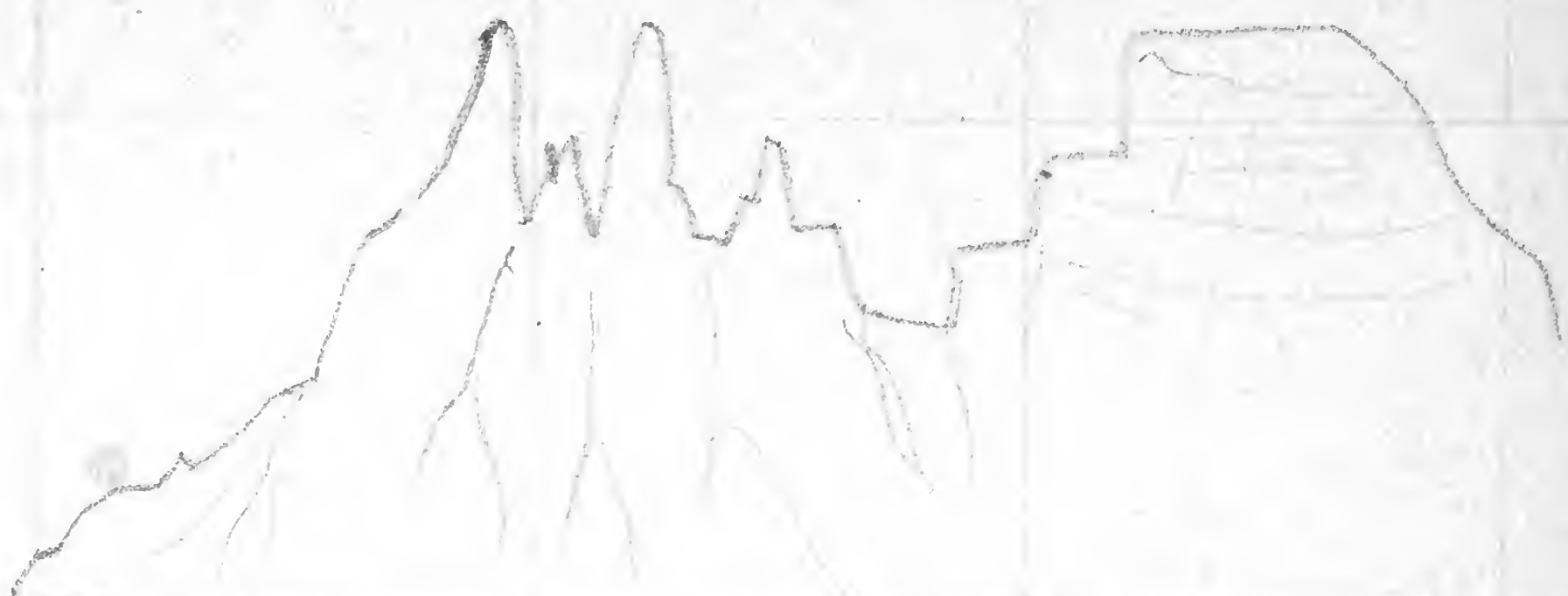
Rains & blows hard all day.
Move the vessel in a little
closer under the shelter of the
bluff. Work over notes, com-
putations & map.

Tuesday June 23

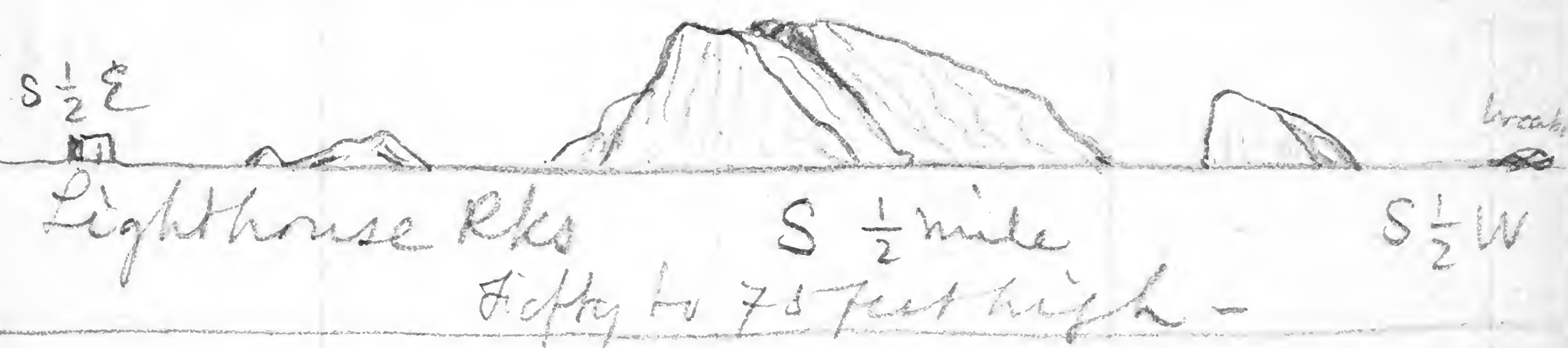
Cloudy & foggy with a little
rain. Take the boat and go
up to the NW light and take a
series of observations to sketch
the shore line. Return by 3
P.M. After supper having
cleared a little of condensation
but will probably have to anchor
again on the outside of the har-
bor. Foggy at night.

Wednesday June 24

Cloudy with fresh SW wind
and some fog. Take some
bearings in the Bay and
stand off shore for the light-
house / Rocks. Get some bear-
ings and altitudes for time
to fix their position. Run
them down about 6 P.M.
There are 4 small & one large
treading S.E. & N.W. covered
with sea lions. Stand away
from them for the p.m.
as the weather is boisterous



Yukimut-PT. S E by E
Chignik Bay 4 miles



and we cannot wait to get a
latitude as we may not have an
opportunity for a week.

Thursday June 25

Reach Mitrophania 2d in A.M.
Weather unsettled, wind fresh & squally.
Cloudy with some fog. We do
not find any deep indentation in
the land such as is indicated on the
chart. The two small islands are
nearer Mitrophania & larger.
A rock awash is on with the
hummocky point beyond W by S 1/2 S
and with the NE end of Mitrophania
2d S E by S. We saw discolored
water indicating another rock
near mid channel with Hummock
Pt bearing W 1/2 S but could not

get an intelligible cross bearing on it - There is a little cove on NE end Mitrophi. Is + a sand spit on the NW - but no deep indentation. Is very high & rocky

Stand over toward the main land in search of an anchorage & finally get one

in a small bight on one of the Cha-ya-chi Is. which is pretty well sheltered but has from 22-16 fms water and a rather uneven bottom. Anchor here to await a chance for observations -

P.M. cloudy - wind lighter

Friday June 26

Cloudy. A.M. washon & set up a signal on the hill. An azimuth & wind light. Got a great lot of the rare Cyprinopodiums. Back to vessel. P.M. azimuth observations interrupted by fog. Evening clears a little. Time by arcatures interrupted by clouds again. Magna

Saturday June 27

Morning broken clouds. wind light. Obser. for time & latitude, sextant and azimuth astr. with theodolite. P.M. corresponding altitudes. Capt. Heurden goes off to try &

get some salmon. Work over sketches. P.M. Go up on the hill & take series of bearings & angles for shoreline. Boat gets back with one salmon. Evening calm. See a glacier on the hills of the mainland.

Sunday June 28

Morning half clear. Obs. for time sextant and latitude at noon. P.M. corresponding equal altitudes. A.M. run shoreline of anchorage. P.M. sounding & send Mr. Bailey out dredging who gets *Millia Kennerlyi* and a few other tolerable things. Evening calm cloudy.

Monday June 29

Morning cloudy calm or light airs. Got under way but make hardly any headway. Pass between the islands & the main. P.M. wind fresh SW, foggy - cloudy some rain. Evening strong breeze with rain. Take in light sail & reef main & foresail.

Tuesday June 30

Morning foggy & rainy dead calm all day. Atkins Is bearing SE by S & Castle Rock SW - sound in 110 fms muddy bottom. Work over sketch of Chiachi Is & drawings

Wednesday July 1. 1874.

Morning Cloudy foggy - wind moderate, beat down into North west Harbor - anchoring in five fathoms about nine A.M. Go ashore and fix up astronomical Δ and get circummeridian obs. with sextant for time and latitude later a few sets astronomical azimuth & magnetic azimuth. Set up five signals. The harbor is a narrow strait between a triangular island & little Koruschi. There are no good landing places - P.M. wind blows quite fresh and woolleys down in sharp squalls - rainy & foggy.

Thursday July 2

Rains & blows hard in squalls all day with very thick fog - Work over month's reports & sketches - tide water.

Friday July 3

Blows very hard from the westward all day - Cannot land - work over sketches etc. Late in P.M. moderates and Baker gets ashore & gets some time observations. Day nearly clear.

Saturday July 4

Half clear - Wind fresh but not so strong as yesterday - Complete altitudes of last night - get good

azimuth, and latitude observations. Go onto the high ridge S of the anchorage and fix position by 3 pt. problem take several series of angles & bearings for shore line - Return about 3 P.M. - Send Baker & Noyes to Hill Δ to finish up the observations from that point & they get back about 8.45 P.M.

Sunday July 5

Morning half cloudy wind more moderate but still strong and squally now & then. Complete the sun bearing that fog may set in - Return about 5 P.M. - After supper, Baker & Noyes finish the magnetic.

Monday July 6

Do a little sounding - Wind very fresh NW - Cloudy, go out by the east strait, stand up the E side of Bay Koruschi, but it blows and woolleys so that we have to run down & anchor in the bight behind the islands on Bay Koruschi - Capt. H. kills a lot of the small crusted ark in P.M.

Tuesday July 7

Clear wind NW strong - Go up on the ridge west of the anchorage & get a series of angles & bearings for shoreline. Return

about 1 P.M. - about 7 P.M.
weigh anchor and stand through
Little Karmushki Strait and SIV
through the islands on our way
to Samnakh -

Wednesday July 8

Wind moderate, half cloudy -
Land in sight all day. P.M.
get bearings fixing our position
and on the Samnakh reef
showing that the Russ. Map
chart of 1848 is correct -

Thursday July 9

Wind light, run up by the
west side of Samnakh and
continue on bearings which
all agree with the Russian
chart of 1848. Cloudy & foggy
all day.

Friday July 10

Cloudy & foggy, heads -
dead calm all day -

Saturday July 11

a little wind in early AM
with fog & rain. Work through
Uminak Pass with the tide &
then falls calm and we have
to anchor with the kedge in
25 fms water. Rolling like
the devil all the P.M. & even-
ing - Rainy & foggy -

Sunday July 12

Foggy all day, wind moderate
Westerly. Run into Adiam
Bay in the fog. By evening
off the Akethan Pass

Monday July 13

Morning early foggy, lights up
and we find ourselves in the
entrance of Constantine Bay -
Work in towards the anchorage
and anchor inside the reef
about 9 A.M. - Take the mail
ashore and find that the priest
and Hennig are away, a Col.
Woods of Indiana is appointed
Deputy Collector. Warner is
waiting for a chance to
go down. Elliott & Lieut. May-
nard U.S.N. have gone to St Paul
with the Reliance - The Alexander
is expected every day from
there - Cyane is due in ten or
fifteen days. Bean has gone
to St. Michaels for the A.E. Co.
Frances Palmer 47 days on her
up voyage this spring. A
new lodging house and five
small native houses - New
fences, a board walk from
the store to the wharf - and
various other improvements are

visible. Young MacIntyre is gone
to St. Pauls Id -

Get a letter from Elliott + one from
Capt. Baker of the reliance -
no mail - Have Wood, Wagner
Capt Dove of the barkentine Con-
stitution (carrying coal for the Fas-
carona now daily expected from
Japan where she had arrived Apr 27)
now in port, to lunch. P.M.
overhauling news papers. Try
for salmon with line but no
luck. Wind light foggy

Tuesday July 14

Cloudy - Wind light. A.M. at
work on report. Alexander ar-
rived from St. Paul - Get a pkg
left here a year ago or so by some
vessel - containing 1 barometer + three
thermometers, one broken - and
a few old letters and papers -
write to Band + Davidson -

P.M. - Atka beaken aboard to sup-
per - Capt Dove in P.M. - Go
ashore and call on Chanfelt -

Some obs. in P.M. Wednesday July 15

A.M. working over letters. Cloudy
foggy - Capt. H was fishing. P.M. go
in the beach at the W side of Am-
aknah - Raining. Accounts in Even-
ing - + letters -

Thursday July 16

Finish accounts and letters - Go ashore
for a short time - send collections ashore
in the storeroom. P.M. - go up with
Wagner + try and find a reported
rock in Dutch Harbor - without
success. Ashore in evening - Day
cloudy foggy - high squalls in
P.M. best of day wind light.

Friday July 17

Morning cloudy foggy, wind light.
Work over current computations
P.M. obs. for time. Evening go
ashore + play crib with Col
Wood - Fill water.

Saturday July 18

Morning get corresponding altitudes
for time. Finish filling water. Set
up Keystone + Roundtop signals
on the tripod plane painting the
lattice white and using red cloth
P.M. go ashore + call on Col Wood

Sunday July 19

Cloudy, light wind first SE
then in P.M. SW with fog - The
Schr. Sutton with Herby on
board comes in from Umanak
R. Bristol Bay. Finish up
letters and go ashore. Off to
lunch, Mr Thomas of the Sutton
aboard to lunch. He tells me

That in going into this river there are two banks on the bar visible the channel carrying 4 fms between them and 5 to 8 fms inside the bar. Keep the starboard bank half a mile aboard until past a small point of the land on the port hand and then keep the port shore well aboard until past the first bend in the river when the way is clear. It is navigable for ten or 12 miles & has a village of 300 adult males on it. P.M. Mr. Hanfelt off to dinner and Father Munkenti after dinner. So ashore I leave letters with Wagner. The father states that a small volcano on the E end of Unimak is now active, on its S side. A mountain on the N side of the Alaska range near Stikine has lately lost the north side of the crater leaving a large depression. For the last 4 years there have been increasing earthquake shocks in Bushkogan. The activity of the volcanoes in 4 Craters appears to be on the increase. Much ashes & cinder have been thrown up on Unimak. Akutan is lively. On the whole - Coldest last October 1st 23°. During the winter 30-73 no lower.

Monday July 20
Morning cloudy, winds moderate at 7 P.M. - Steved out of the small harbor and put to sea for St. Paul Island. Wind freshens and we are obliged to take in sail and reef - P.M. wind more moderate, foggy.

Tuesday July 21
Cloudy & foggy, dead calm in A.M. - P.M. cloudy light wind from ESE in evening.

Wednesday July 22
Foggy & cloudy in A.M. about 7 A.M. pass the west end of St. George Id. - About noon anchor in Southwest Bay St. Pauls Id. Go ashore after lunch which Lieut. Willett of the cutter partakes of with us. The Reliance is here. See young & old Mackenzie when Elliott, Maynard, Lesser, Capt. Bong and family and Capt. Baker of the cutter. Get some obs. for time. P.M. go Capt Baker and Dr. Thacher off to supper. Rate their chronometers for them. They have finished the sealing. J. McArthur, Falconer, Dr. Conner & Adams are going down. Elliott & Maynard have made a very tolerable map.

with nothing but a compass, and sextant, but report a great deal of local variation.

Thursday, July 23

Ashore early in A.M. Get 8 pairs of equal altitudes for time when it shuts up with a thick fog which lasts all day. Wind fresh and squally. Ashore all day. Dine with Capt. Bryant & Dr. Kramer. In the afternoon go down to the reef rookery and get a good sight of the seals. Come off about 5 P.M. - About seven wind begins to clear off a little.

Friday July 24

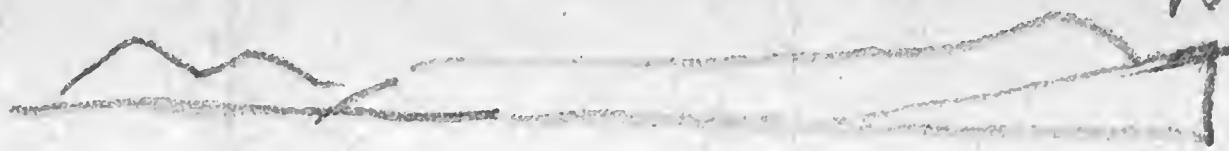
Morning - Cloudy fresh N N W wind. Baker goes ashore and gets a few sets of alt. azimuth, through the clouds - afterwards notes from A and magnetic azimuth. Elliott comes off and traces chart of St. Matthew, & stays to lunch. P.M. get telemeter observations & bearings from hill and vessel on the surrounding land. Evening wind more moderate.

Saturday July 25

Morning cloudy. Start with light westerly wind for the W end of the island but rain squalls come up the lips of

E

N



Water 20

the mountains are in the fog and on the whole it appears so unfavorable that I turn back, go to the village - take some telemeter observations and bearings. Set theodolite & wait for the island to come out of the fog as I wish to get an azimuth on St. George. Late in the P.M. it comes out and we get an azimuth as well as three good sets of astronomical azimuth. Mr. Bailey goes dredging and gets very little except some queer fish and shrimps. Clouds up again toward night very thick.

Sunday July 26

Morning cloudy, wind light. - Go ashore and walk over to the Lukannon beach with Capt. Bryant. Get a few things worth having. About noon get a few equal altitudes for time and ^{chron.} equal meridian altitudes for Lat. 57. 55. 4. Spend the P.M. ashore and come aboard for dinner bidding every body good bye. Leave an order with Capt. Bryant for a seal pup robe and 25.00 in coin to pay for it. P.M. cloudy, nearly calm. 24 fms betw. Wabrus Is & St. Paul. Reef & scattering rock off Sea Lion Pt. & off S.W. pt 3/4 mile. 12 fms close to Wabrus Is. - Rock 14 miles S.W. of

Monday July 27.74

Morning cloudy wind very light East-
erly with an old heavy SW swell
get underway about 9 A.M. and
stand to the westward round the
island taking bearings and ranges
as we go. Two miles off SW pt
in the line of the reef get $12\frac{1}{2}$ fms
sandy bottom, a mile west of
the latter place get no bottom
with 28 fms. North of NE point
a mile and a half get 17 fms.
Pass close to Walrus Is and see
many walrus & birds. In early
A.M. see a topsail scho. with 3
jibs standing to the Southward.
See the cutters boat returning
when off NE pt. - and the cutter
at anchor off Reef Pt on the E
side - after finishing our bear-
ings stand over towards Nunivak
Wind much fresher in evening with
a little rain.

Tuesday July 28

Foggy rainy & strong NE wind all
day. running for Nunivak Is
toward night as we must be
near the island shorten sail and
come in 17 fms. weather very foggy.
Work on sketch of St Paul Is.
and put up plants during day

Wednesday July 29

Cloudy & foggy wind fresh - To-
ward noon it lights up a little
and we find ourselves to the
north of the west point of Nuniv-
ak. Run in behind Cape Eto-
lin and come to an anchor in
a small bight behind it. Light
or ten single bidarkas come off
and we drive quite a brisk
trade for arrows, lances &c &c.
Evening cloudy - work most of
the day on our chart of St Paul

~~Thursday July 30~~

Morning cloudy, wind more mod-
erate, go ashore and get time lat-
itude and one set of astronomical
azimuth, and magnetic azimuth.
Go over the beaches & get a variety
of good things. Mr. Bailey does
pretty well dredging. Buy a lot
of ethnological things from the
natives. Evening wind SE again
thick and cloudy.

Thursday July 30

Day cloudy toward noon it
lights up a little - get series
of latitude observations and some
poor time. Trade with the na-
tives for arrows &c. Evening blows
quite hard from the S.E.

1874

Saturday Aug 1

Morning blowing fresh from SW -
Cloudy - Pack & clean shells -
After lunch go ashore & do some
telemeter work. Get two skulls - &
buy a few nicknacks - Later go
aboard & send some men ashore who
bring off nine very ancient & moss
grown skulls, beside breaking into
an Eskimo cache and cutting open
their seal oil bags in the idea
that the cache was a grave!

Sunday Aug 2, 74

Sail from Cape Etchem for Hager-
meister Id. - Cloudy - wind light -
Work all day packing & labelling
ethnological collection

Monday Aug 3

Nearly calm all day - Cloudy &
foggy. Work over draughting - Catch a
mummer & cod in P.M. Evening dead
calm. Obs for time and latitude off W Cape

Tuesday Aug 4

Calm foggy & cloudy all day
Draughting a map of Cape Etchem
Catch a great many fish in P.M.

Wednesday 5

Day half clear, moderate SSW wind
Forward night make Cape Newwenham
N Ely E $\frac{1}{2}$ & 22 miles distant - Work
over computations &c during the day

Thursday Aug 6, 74

Morning half clear wind light. En-
ter the strait between Hagermeister Id
and the main and about noon
anchor to the NE of the inner spit
in 8 fms. Go ashore for time obser-
vations but it becomes cloudy and
we get none. Evening cloudy. Get
a lot of crabs, but the beaches are
very bare. The island is about 2000
feet high, current falls to the SW
& rises from the east runs 2 knots
to four when at its height.

Friday Aug 7

Morning strong SSW wind & broken
clouds. Later clear - P.M.
wind a little more moderate. Get
astr. & mag. azimuth, and obs.
for time. Work over packing
specimens, and charts.

Saturday Aug 8

Morning clear and nearly calm
obs for time & latitude & complete
magnetic azimuth. P.M. cloudy
calm. Capt. H. goes down the
strait to work for the bark we
saw coming through but there was
none. Dredging very poor indeed
Rocks here are porphyrites &
granitites - a light with good
SE shelter in the NW end of Id.

1874

Sunday Aug 9

Early in A.M. - fresh N wind
clear get underway and make
out to get out of the strait
& on the E side of the island. The
falls dead calm for rem. of
day - Clear and fine - War
at Dry Bay chart.

Monday Aug 10

Day half cloudy, fair, & fresh S +
SSW wind - Working over chart &
the fair weather ground most of the
day.

Tuesday Aug 11

Day fine and clear, wind light SSW.
Beating all day along the coast tow
ard Miller Bay, in 13-10 fms about
3 miles off the coast - at noon Cape
Serrano bears ESE 3 miles, lat. 56
22°. At 9.10 anchor in seven fms
off the mouth of Port Moller - See
two volcanoes and mountains to NE &
one Peak with two peaks to SW.
Also seven glaciers and two remarkable
prongs near 2nd & 3rd volcanoes - C. Serrano
vine a low grey sand bluff - C
next a - low and grassy inconspicuous
just NE of Moller 2 white sand banks
or bluffs & say 25 to 40 feet high -
Soundings in evening diminished very
slowly from ten to seven & even $\frac{1}{4}$.

Wednesday Aug 12

Early A.M. - clear fine - Light
SE wind, later calm later fresh
NE + N wind - Beat into port
Moller about 8. A.M. - send
the boat ashore at once and
get Latitude, time with sextant
astronomical & mag - azimuth
with theodolite! Go out
in the large boat & sound
over the harbor - See many
reindeer - seal - birds & a
bear - Tide goes out & we have
to drag the big boat over
several miles of flats.

Thursday Aug 13

Early A.M. dense fog. Later clears
away - Capt. Nielsen goes ashore
& kills two deer - after working in
A.M. on chart, go ashore & take an-
gles & bearings from small bluff -
Should have had a shot at four
deer but they scared them away -
Find some hot springs and some
fossils seemingly Eocene or Eocene
erous. Start back about 5.20 A.M.
& pull against wind & tide until past
noon, before getting on board - Evening
clear tide slack up in A.M. at
9.30 - O. M. about 4 o'clock. Tide
and full at least six feet

Friday, Aug 14. 74.

Morning foggy - go ashore & get angles & bearings to complete sketch of harbor. Mr. Bailey fills water & dredges. Finds a fine lobster & an arrowhead in the beach. Capt. N. goes ashore but finds nothing. P.M. rainy & stormy. Flat sketch of harbor. Put away drawings &c.

Saturday Aug 15.

Morning foggy. Light NW wind go ashore and explore for fossils & dig in the shell heaps getting a number of things. Moxes & Baker kill a deer & a piece come off about 3 P.M. and the others get aboard about seven. Day foggy throughout.

Sunday Aug 16.

Morning - Baker Moxes & Capt. N. go ashore to get the deer killed yesterday & Capt. N. kills two more making in all five brought aboard. I pack away fossils & catalogue ethnological specimens. On their return we put to sea beating out against a head wind which dies away and we are obliged to anchor in 3 fms off the harbor to avoid drift with the tide. Morning foggy - later clear.

Monday Aug 17th

Morning somewhat foggy - get under way at 6 A.M. with a light breeze and calm sea, keep going all day as steady as a church - work over packing fossils - finish chart of St. Elias and vicinity - most of day clear - and moderate but steady wind.

Tuesday Aug 18.

Densely foggy all day - work over clerical matters. Wind fresh and steady vessel going steadily on her course.

Wednesday Aug 19.

Dense fog all day - wind moderate NE - standing off and on for it to light up - work over blankings of sketches.

Thursday Aug 20.

Foggy most of the day. Wind light. A.M. fresh in P.M. about 2 P.M. fog clears up and we find ourselves to the SW of St. George Id. Wind shifting to the NE we have to beat up.

Friday Aug 21.

Day cloudy with fresh northerly wind, bad broken sea, beating all day toward St. George's Island. P.M. see a sch. under the land.

Saturday August 22nd, 1874
A.M. squally from N & NNW, get
into South Bay and anchor. The
sch. Cygnet Capt. Kimberly, a cele-
brated otter hunter is also at an-
chor there. Send the boat in to
take observations and they get
tolerable latitude and time. ^{Get}
Mate Mr. Cameron of the Cygnet and
we go aboard the Cygnet for a
while. They have about 200
otters - four Indians and seven
men. They intend to search
on a kelp bed about 12 miles
N & E from the E end of St. George
for otters - as soon as it mod-
erates. Agent MacIntyre &
Morgan of the A.C.C. come
over from the village in hot
haste, taking us for a lot of
pirates with designs on the
seal rookeries. They stay to
lunch and we furnish them
with some venison. Also Capt
Kimberly who comes to dinner.
Evening more moderate but
squally.

Sunday Aug 23

Morning squally with showers
passing clouds and fresh wind
Get equal altitudes corresponding

to those of yesterday P.M. About
10 A.M. get under way and sail
round the island taking bearings
to complete our sketch - which
differs considerably from Elliott's.
The Cygnet is off for the kelp beds
By noon get by the west end
of the island and take our depar-
ture from the east end about
2 P.M. for Unalaska. Make
tolerable time though the wind
is puffy with a bad sea.

Monday Aug 24

Strong WNW wind with fog
& rain all day. Run down to
within 9 miles of Unalaska
Heads, when it shuts in so thick
and blows so hard that we re-
duce her to double reef and
the tide kicks up such a nasty
sea that we are obliged to head
her to the northward. See a
whaling bark the Java, quite near
and making very good weather
of it. P.M. very rough and
nasty.

Tuesday Aug 25

Make the land early in A.M. Stand
in and anchor off the town in 15 fms
about 11 A.M. Day windy & cloudy
with showers. Get our mail which

arrived by the Cyane, and a letter from Belknap who was here Aug 5th. Wagner ran the ship on the rocks trying to take her in to the inner harbor, but she got off without serious injury.

Wednesday Aug 26.

Day half clear, A.M. - cloudy wind light westerly. Overhauling newspapers &c all day. P.M. - obs for time to rate chronometer.

Thursday Aug 27

A.M. - Cloudy with a little rain. Cutter Reliance comes in. They have been to St. Mathew & St. Lawrence only. Go aboard & take lunch with Elliott Maynard & Dr. Thacher. who in return come off and dine with ~~them~~ Bark Francis Palmer comes in later in the day from St. Michaels & good news Bay. Bean is on board, arrested for infringement of the revenue laws and Ketchum. Wind

Friday Aug. 28.

Cloudy light variable wind + fog with a little rain. Elliott comes aboard & stays nearly all day.

Write notes Saturday Aug 29

Morning, mod. wind SE - heavy rain all day. Write letters

P.M. go aboard the cutter to dine + spend the evening. The Sutton arrives from Belknap.

Sunday Aug 30

Day cloudy P.M. clear for a short time, wind variable light. attempt obs for time frustrated by clouds. Write letters in A.M. Dr. Thacher & Ketchum aboard to lunch. Capt. Lennan of the Sutton in the P.M. Get some hydrographic memoranda from him. A rock has been discovered in Popoff Strait. P.M. write copy charts.

Monday Aug 31

Day stormy, foggy, rainy, strong wind & squalls from NE. Work over letter to U.S. Commissioner - Neim, Davidson &c. P.M. over vouchers &c to be sent by the Reliance.

Tuesday Sept 1

Morning, working over reports & journals. Cloudy, some fog, wind moderate. P.M. - running shore line in the west side of Captains Bay.

Wednesday Sept 2

Raining & equally in A.M. - Cloudy P.M. very strong SW wind. Capt Baker & Col. Wood come aboard P.M. go aboard the cutter.

Thursday Sept 3
Day cloudy, wind light. About
noon some rain.

Go to Nakeekin Bay. Lieut
Magnard, Capt Baker & Collector
Woods go with us to fish.
Run shore line of Nakeekin
Bay. interrupted by rain but
nearly finish it. Back by 7 P.M.

Friday Sept 4
Raining & foggy. Work over
computations and sketch of
N.W. Harbor. Evening go ashore
& call on Greenbaum, the priest
Col Wood & Shanfelt.

Saturday Sept 5
Showery & squally. in A.M.
Clears a little in P.M. - work
all day over Shumagin map.

Sunday Sept 6
Day Half clear, cold but pleas-
ant. P.M. cloudy. Work over
sketch of Kominshi Id. Shumagins
Evening play crib & go ashore
for a little while.

Monday Sept 7
Send Mr Bailey out dredging and he met
with great success. Day begins with
mild sunshower, rain, wind & fog
work over currents and temperatures
until Keene the pilot comes aboard.

P.M. overhauling dredgings, Batushka
comes to dinner, and Elliott, May
maid, and Willett come in the evening.

Tuesday Sept 8
Rains hard all day work over
dredgings. P.M. go aboard
the cutter.

Wednesday Sept 9
Morning half clear & fine. go
to the west side of the bay &
run shoreline, later rains
& showers, back to vessel by
5 P.M. - Evening blows a gale
from S.E. - the Reliance sailed
this A.M.

Thursday Sept 10
Morning moderate, with half
clear sky & strong squalls from
S.W. - and threatening clouds.
Looks too bad to risk a long pull
so work over computations &c
all day. Evening showers &
later cloudy - go ashore & call on
Col. Wood.

Friday Sept 11
Raining & stormy, fresh northerly wind.
Work over electrical work. Send Mr Bailey
out dredging ^{the ridge between} the heads of Captains Harbor
and he brings back some good things. P.M.
work over assorting these &c. Peeten
Alaskensis, Dillia Kunicotia, Chrysodanus indet. & Pleuro-
ma circumdata are among the prizes.

Saturday Sept 12

Foggy & rainy with light variable wind. A.M. pack & catalogue specimens. Work over clerical work. Pay rolls in P.M. Mr. Bailey gone fishing.

Sunday Sept 13

Rains all day wind light. P.M. by ashore on the island. Feel a little under the weather & take a dose of physic.

Monday Sept 14

Morning early clear, fine, & calm some clouds over. Take the boat & continue our work on the west side of the bay. P.M. comes on raining & we return about 3 P.M. Evening calm clear.

Tuesday Sept 15

Day cloudy with squalls & wind otherwise pretty moderate. Obs for magnetic azimuth A.M. & P.M.

Work over payrolls. P.M. Shamp comes off to dinner & as the evening is very stormy & rainy he stays aboard over night.

Wednesday Sept 16

Rains in A.M. with thick fog but not much wind. Bar. goes down to 28.85 the lowest of the season. Work over sketch charts. Evening blowing a gale from the S.S.E. with heavy rain.

Thursday Sept 17 1874

Morning cloudy and blowing very hard in squalls. P.M. more moderate half clear. The Sch. Sutton comes in from a mountain obs. where the Captain has obtained a number of mammals from a cave and a lot of other articles.

Friday Sept 18

Rains hard all day. Work over computations & dredgings.

Saturday Sept 19

Day cloudy with light wind, and in P.M. fog & slight rain. Magnetic azimuth with P.M. Mr. Bailey dredges in Port Foul asheff. Capt. Lennan aboard to dinner. P.M. work over dredgings.

Sunday Sept 20

Work over dredgings most of the day. Half cloudy. Some fog in P.M. Sun out at times. Obs. for time & rate chronometers.

Monday Sept 21

Rains more or less all day with fog nearly calm. Bailey dredging. On shore building boat house. P.M. sort dredgings.

Tuesday Sept 22

Morning half clear - Wind light all day. Start for Igogak Pt. - It rains before we get there & after we get there, but I work on in defiance of it and by P.M. we complete the shore line of the west side of the Bay. Get back in a rain squall about 4 P.M. The natives have found a right whale, dead, in the harbor, which had been struck by the adventur-
er -

Wednesday Sept 23

Day showery - Wind fresh westerly. Work over clerical work. The stop goes out after the whale which they do not succeed in finding. P.M. call on Col Woods.

Thursday Sept 24

Day showery fresh westerly wind. Heavy snowfall on the mountains. Get my room into sea trim. Get-
ting ballast & coal aboard. Col Wood comes off in P.M. Evening for ashore.

Friday Sept 25

Morning cloudy with a little rain, and strong westerly wind. Stow specimens in room, mark boxes &c. Evening go ashore. & call on Col Wood. Getting ready for sea.

Saturday, Sept. 26. 1874

Day cloudy, light northerly wind. Take the small boat and go up to Ulaakhta signal & dig for pre-histories. Get about 75 specimens & come back at 6 P.M. Mr. Shapfelt about to dinner. Evening clean & catalogue specimens.

Sunday Sept 27

Day cloudy with fog & light rain. Work copying catalogue & writing letters. Col. Woods off to dinner, P.M. go ashore & call on the priest & up to the old. Priest wants No. 15 long sighted spectacles.

Monday, Sept. 28

Day cloudy & rainy. Cataloguing & packing specimens. Priest comes off to dinner. Wants some cartridges like a pattern he gives me, and wants some letters attended to. Evening very rainy - Wind light.

Tuesday Sept 29

Morning half cloudy with showers. Wind fresh NW. At 7 A.M. stand out of small harbor, at 8 A.M. sail from Iliulik for San Francisco. Enter the pass with a fair tide, at noon are clear of Akutan and stand out to sea with a nine knot breeze, homeward bound.

Wednesday Sept 30

Cloudy. Wind moderate lighter in

P.M. Going steadily along on our course - 222 miles since noon yesterday - some rain today.

Thursday Oct 1

Cloudy with rain squalls & light wind in A.M. P.M. wind steady moderate. 134 miles this 24 hours.

Friday Oct 2

Cloudy, wind in E pretty steady with slight squalls of rain - 186 miles to noon today ^(comes in 4.0)

Saturday Oct 3

Cloudy with sun at intervals. Wind fresh but irregular - 222 miles to 12 o'clock today

Sunday Oct 4

Day cloudy with light winds especially in P.M. - and heavy cross sea. In evening a light breeze springs up from the E.W. - 212 miles up to noon today

Monday Oct 5

Morning cloudy & rainy, wind light. Make 175 miles to 12 o'clock. P.M. wind very light, then squally with heavy rain. Moderate S.W. breeze all night

Tuesday Oct 6

Cloudy, fresh S.W. wind - 149 miles to noon. P.M. wind fresh - rec'd the

mainsail. Clear away toward 9 P.M.

Wednesday Oct 7

Fair southwesterly breeze all day - Morning cloudy, latter part clear & nearly so. 220 miles this day.

Thursday Oct 8

Morning dead calm - about 3 P.M. light N.E. breeze, later a moderate northerly wind - 136 miles this day.

Friday Oct 9

Tolerably fresh wind in early A.M. from the Eastward - later very light, nearly calm at night. Day cloudy - 134 miles to noon. Lightning in Saturday Oct 10 the evening

Cloudy and clear at intervals. Wind light southerly - 83 miles today. Doing better in afternoon.

Sunday Oct 11

Morning dead calm - later light airs. 140 miles to noon. Cloudy & foggy with rain in P.M. Toward night a fine fresh northerly breeze springs up and we go along calmly at 5 P.M.

Monday Oct 12

Foggy, wind light, with some rain. See a good many vessels during

the day but no land comes out. about 6 P.M. strike the outward bound fleet of coasters and soon afterwards make Point Lobos. About a quarter to nine, come to an anchor off Muir's Wharf in San Francisco. Weather foggy & drizzly. Noyes, R. Baker & Helentzen go ashore -
Tuesday Oct. 13.

Early in A.M. go ashore, call at the P.O. go up to bank and meet Bendel & Dr. Hyams - then go to the Elms & secure a room, then up to the office - see Schumacher, Curry, and Penheller get room into shape - cleaning up and arrange things. Afterward go down town, meet Capt. Hall - call on Carmany - up to Restaurant to dinner - then in evening call on Capt. Noyes & meet Dr. Baker. The fiancé of Miss Ligger - Go aboard at 11.30

Wednesday Oct. 14

Breakfast & get things ready to be carried up to office & room. Go up to office, then to bank and down to P.O. & into see Dougherty. Get a letter addressed to ~~the~~ me at Unalakhta which contains the important information that the appropriations failed during the last session, and hence the work must

be given up or intermitted for a year. This settles a point on which my ideas were very evenly balanced. It is probably for the best that I should go East, as the longer I am away the greater the increase of the gap between me and my associates & studies. Go to telegraph office & send a long telegram to Patterson, & reserve part of my draft till I hear from Hein. Up to office & write letters, work there till dinner time and then go to the theater with Bendel to Broadway Crockett.

Thursday Oct 15

Post office - Breakfast, get papers &c from Capt. Noyes' office. Up to room & sort them and then to office. Work most of day over writing letters & preliminary report - Get telegram from Patterson. Go to Post office & send registered letters, Meet Low, and Jennings. Meet Stearns at dinner and call on Stebbins & Fisher.

Friday Oct 16

Breakfast P.O. and up to office. Talk over matters with Penheller. Write letters. Go to Bank. Evening Call on Bolander at 12.31 mission of

Saturday Oct. 18.

Morning P.O. breakfast, Office
~~see Herendeen~~ Tommy comes up. Write
letter & report. Go down to see Car-
many, get Scammon's book & some
copies of the Overland and photos.
Come back and ride out to the Cliff
House with Bendel, dine, meet Capt
Smith, go out & call on Capt & Mrs
Hall.

Sunday, Oct. 19.

Morning rainy. Breakfast. office
& church. Lunch at the Olives. Dine
with Capt. Noyes. I spend the even-
ing there.

Monday Oct 20.

Morning P.O. breakfast - room
and up to office. Gibbs & in
to see me. Herendeen calls.
Down to vessel & pay off men.
Bundel comes aboard.
Up to office - give map to Schu-
macher. Work on accounts.
Evening - Academy meeting.

Tuesday Oct 21.

Morning P.O. C.S. office work over
accounts at 3 P.M. go round to
Fisher's. Overhaul Tuscarora speci-
mens. Dine & call on Jennings in P.M.

Wednesday Oct. 21.

Breakfast, room, & office. Capt

H & Tommy come in - Work over letters
and accounts - dinner and in P.M.
call on Capt. Smith.

Thursday Oct 22.

Morning rainy. Office & work
over letters & records. P.M.
Call on Mrs Hague & Rankin

Friday, Oct 23

Morning, shop at Carmany's.
Hodges & Alaska Herald. Up to
office. Down to see Capt. Noyes and
bookbinder. Back to office work over
comparisons of copies of astr. obs.
P.M. dine with Jennings

Saturday Oct 24

Breakfast, P.O. room & office. Goldschmidt
& Fisher come in. Send down to vessel
for log. Call on Capt. Noyes & leave
vouchers. See Pace about Chron.
Meet Stearns at office and
with Baker go over to Berkeley
with him and spend the night.

Sunday Oct. 25

Stormy, SE with heavy rain. Go
up to the office in the University
building and meet Willard B. Rising
Prof. Jos. Beconte, Yale and John E. Lewis,
spend part of the day there, back
to Stearns and spend the night.

Monday Oct 26

Get up early - A.M. cleared a

little, Meet Gilman on the car,
Go over to San Francisco, See
Hubbard in the boat. Post office
lunch, Up to office. See Herenden
Pay off a lot of seamen. Get receipts
from Capt. Noyes. Go over copy of obser-
vations with Baker. Evening call on
Capt. Noyes.

Tuesday Oct 27. 74

Morning shower, P.O. breakfast-
and office. Work over records & let-
ters. Leave order at Snooks go down
& get a bath. Dinner, and in P.M.
call on Rev. Stebbins

Wednesday Oct 28

Morning, P.O. Get instructions from
Patterson. Breakfast, up to room &
office. See Herenden Fisher and re-
porter. Work over records and inven-
tory. Bradford comes in. P.M. Call
on Mrs. Dr. Hastings.

Thursday Oct 29

P.O. Breakfast, room & office -
Go to Snooks, down to vessel at 1 P.M.
Work all P.M. Cataloguing specimens
of ethnology. Evening leave horns at
Hague's & call on D. W. Raymond

Friday Oct 30

A.M. call on Jennings. P.O. Moore's &
Breakfast, room & work over office work
12.30 P.M. go down to vessel

May 7. 1872. Peter Hansen Henning - Aid

Work over catalogue & packing
ethnologicals - P.M. dine with
Stebbins & call on Fisher.

Saturday Oct 31

Morning. P.O. Meet Keene & Capt.
Baker. breakfast, room & office
Work over miscellaneous work
until 2 P.M. then go to Moore's
& take Stockton train arriving
there about 8.30 P.M. Go to Henry
& Austins. William has now a
house of his own.

Sunday Nov 1.

Go to church with the ladies
and in the P.M. visit Dr. Shurt-
leff at the Asylum.

Monday Nov 2

Take the 8 A.M. train for San
Francisco, in charge of two
ladies, Mrs. & Miss Davies of Stock-
ton, friends of Cousin Henry. Then
go up to the office. See Baker
and Bradford, and Seydell.
P.M. Go to Academy meeting

Tuesday Nov 3

Morning cloudy. Rudofseus. P.O.
Breakfast room & office. Write
letters - About noon go down
to vessel - Go over sails & rigging
and anchors with Bradford, pack some
collections, go up town P.M. call on Smith (out
& Capt. Noyes

Wednesday Nov. 4,

Morning, P.O., breakfast, room & office
Chase comes in. Leave note at church
Go down to vessel ^{Hassler} and over haul
scientific equipment and mark
boxes. P.M. return to office. Dinner
Attend Sarah Hall's wedding in evening

Thursday Nov. 5,

Morning, leave order at Pace's, P.O.
breakfast, Slope come up, and put
in church, send two boxes to Express
office for S.I. Raimy. P.M. Go down
to railroad depot and ship goods
for S.I. & Baker. P.M. call on
Mrs Rockwell.

Friday Nov 6

Morning, Bindas P.O. chart mounters
Breakfast - office. Mr. Bailey comes
up, go round with him to the ac-
ademy. Get porpoise jaws. Leave
equipment. Later go down to the
vessel and pack large chest
See Pace & get receipt. Jennings
and Moore. Evening call on
Capt. Heerden.

Saturday Nov 7

Morning P.O., room, office. Mr.
Bailey & the carpenter come up
with instruments. Send Toming
round with books &c. About
noon go down to vessel.

Pack up personal traps and
get boxes in order. Return
to office, dinner and spend the
evening with Bendel.

Sunday Nov. 8

Morning P.O. breakfast, Room
and office. Write letters. Call
on Hague & see Prof. Gilman
Done with Capt. Groves.

Monday Nov 9

P.O. Bacon's, breakfast, office,
Heerden & Bradford in. About
1 P.M. Go down to vessel and
work on inventory with Brad-
ford. About 5 P.M. up to office
dinner. Evening go to theater
with Bendel & Baker

Tuesday Nov 10

Morning P.O. Breakfast office -
send Baker down to vessel. He
brings up boxes. Go down abt
noon & mark boxes. Back to
office, calling on Hall and
spend evening with Jennings

Wednesday Nov 11

Morning P.O. breakfast, Wells
kargos & send boxes. Office
down to vessel about noon
and finish inventory with Bradford.
Return to office & complete copy
Evening call at Smiths & Shebbins

Thursday Nov 12. 74

Morning - Pace, P.O. breakfast, office
Work over inventories & make 3 rep-
ces - Go down to Hodges, Pay Paces
bill, see Jennings, back to office
dinner, Evening call on Mrs Otis.

Friday Nov 13

Morning ^{P.O.} office - Get two books of
Morre, Neendeen, Smith & Bradford
come in - Go over inventory with
him & finish it. Go down town &
pay Hodge & Blakeston, see Hall
& Carmany, back to office. P.M.
see Smith and work at room

Saturday Nov 14

P.O. office, get Express wagon - Go
to R.R. Depot, Meet Van Vlack &
after a good deal of trouble get my
freight off. Back to office and work over
accounts. Down to Paces & Cigar man's. Room
Pick strawberries - Evening bath & over hand
papers - Capt Barnes of the whaleship Marenge
states that about 8 miles a little n of W
of the N Pt of St Paul Id, he saw two
breakers about three ships lengths apart.
There was a very heavy sea on. Capt Pat-
vel ^{of the Camilla} corroborated him. This breaker is said
to be on the Arctic chart, used by the
whalers which takes in the Pribiloff
group and goes east to the Mackenzie
River mouth.

Sunday, Nov. 15.

P.O. Breakfast, room, office, church
Back to office, Pack books & papers.
Dine & spend the evening with Capt.
Noyes.

Monday, Nov. 16

Morning P.O. breakfast, office.
Neendeen & Bradford come in. Go
down to the vessel and turn her
over to Bradford and return
to office to pay off men. Down
town to Bank 619 Clay St and
settle up with Cyrus W. Carmany
Cashier, depositing cash book
No. 18,798 with a credit of \$8,000.00
Then to Fordham & Jennings - Get
check, settle up and deposit in
Bank. Back to office - pay Carpen-
ter and work over payrolls. Meet
Stearns @ dinner. Lend Beudel
my scrapbook. Evening Acad-
emy meeting.

Tuesday Nov 17

Morning. P.O. breakfast. Get vou-
chers, work over payrolls. Go
down & see Capt. Mitchell & Barnes
Back to office - dine at the Otises &
spend the P.M.

Wednesday Nov. 18

Morning P.O. Navy Agents, Office
Thompson, Dr. Blake, Noyes and Chase

Lunch with Whymper
come in, work over papers. Go down
to see Watkins. P.M. Go to Oakland
boat at 3 P.M. on way to Hayward
to call on Honcharenko with Bendel
Go over but do not find H. at depot, get
a buggy and finally reach his
place after dark on top of the Coast
Range about five miles from Hayward.
Spend the night with him.

Thursday Nov. 19.

Morning, look over Honcharenko's place
and the Nihilists cabin, drive down
to the Depot, reach S. F. about 12.30
P.O. Lunch. Carman's, Paces, Room
office. Get watch (No 39.846 N)
look for a key but find none.
P.M. See Carman & Pace, again
Dine with Capt. Neundeen &
Call on the Hall's

Friday Nov 20

Breakfast, P.O. Carman's
Office. (Snook's) See Olafsen at
office. Noyes comes in - see
about ticket. About noon go out
to Woodward's Garden and examine
the animals. Back to office, see
Bendel. Down to room & dress.
Evening dine with & spend the
evening at Lanning's.

Saturday Nov. 21

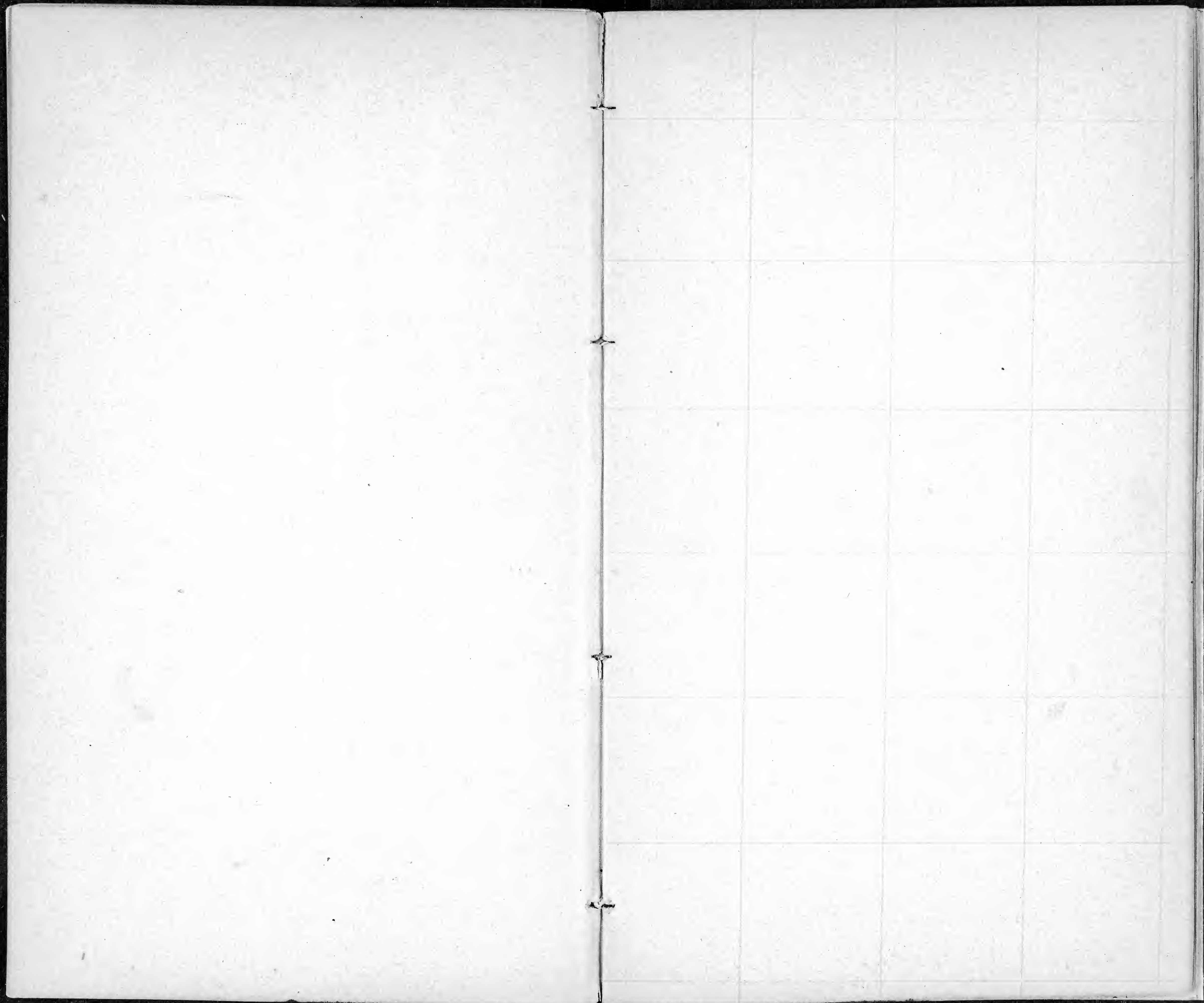
Morning cloudy. P.O. breakfast

Office, Noyes, Bendel & Neun-
deen come in. Pack up var-
ious boxes & mark for trans-
portation. Baker goes down
with the captain on board some
of the whalers - write letters &c.
At 4.30 go over to Oakland & dine
with H. Bendel in company with
B. Bendel & Baker. back at 9.10

Sunday Nov. 22

P.O. Breakfast - Room & pack trunk
down to office. Pack large box.
To call today on Shebbins - Hague
and dine with the Noyes.

Close Diaries
and open new book



C. cat.

1. Appendicularia sp. off. Cala coast
Lat. S. Luis Obispo. January 1874
2. Piedmannia sp &c. off Cal. coast
January 1874
3. ditto same loc. January 1874
4. Naked mollusks Catalina Harbor
Jan. 1874
5. Small shells 30-40 fms. S. L. L. L.
Catalina Harbor. Jan. 1874
6. Miscell. Invert. same loc
7. ditto do.
8. Lucapina ditto beach
9. Mollusks ditto beach.
10. Invertebrates ditto beach.
11. Pommarax " beach
12. Ranella " "
13. Mollusks " "
14. " " "
15. Erche Catal. Har. Jan 30.
16. " " "
17. Small auk " "
18. " " "
19. Large " " "
20. Crabs " beach
21. Mollusks " "
22. Halotis &c " "
23. Fish " Jan 31
24. " " "
- Skull of bonhead fish Cal. Har
- ♀ Auk off coast Cal. Mty Bay Jan 24 1874

25. Miscellaneous NW. beach, Cat. Harb ---
 26 " " " " "
 27 " " " " "
 28 Lucapina & Aplysia " "
 29 Mollusks, beach Catalina Harbor
 30 " " " "
 31 " " " "
 32 Crustacea &c 40-60 fms " "
 33 Pennatulidae &c " " "
 34 Mollusks &c beach " "
 35 " " " "
 36 Invertebrates " " "
 37. do N side Cat. Id opp Harb. 10-16
 fms sandy & rocky bottom
 38. Mollusks beach Cat. Harbor
 39. Miscellaneous N. side Cat.
 Id 10-16 fm sand & stones
 40. Miscel. 52 fms Sta Barbara Chan
 41. Insects San Miguel Feb 9.
 42. Mollusca " " beach
 43 Crabs &c " " "
 44 Miscel. Inver Monterey "
 45 " " " 8-12 fm
 46 " " " "
 47 Shells " "
 48 Beetles frogs &c " Pt Pinos

Smiths Coll

Escholtz Bay

Macoma inconspicua
 Amanuopsis purpurea.
 Norton Id

Long Macoma
 Yoldia lanceolata

E Espenbug
 Mesalia polaris
 Scalania Grönländica

Dey Cape
 Astarte semisulcata
 Natica like nassa
 Astarte Bankii

C Prince Wales
 Pecten Placumanomia
 Sea Horse Ids

Pilidium
 Cape Franklin
 Curious Trophon.

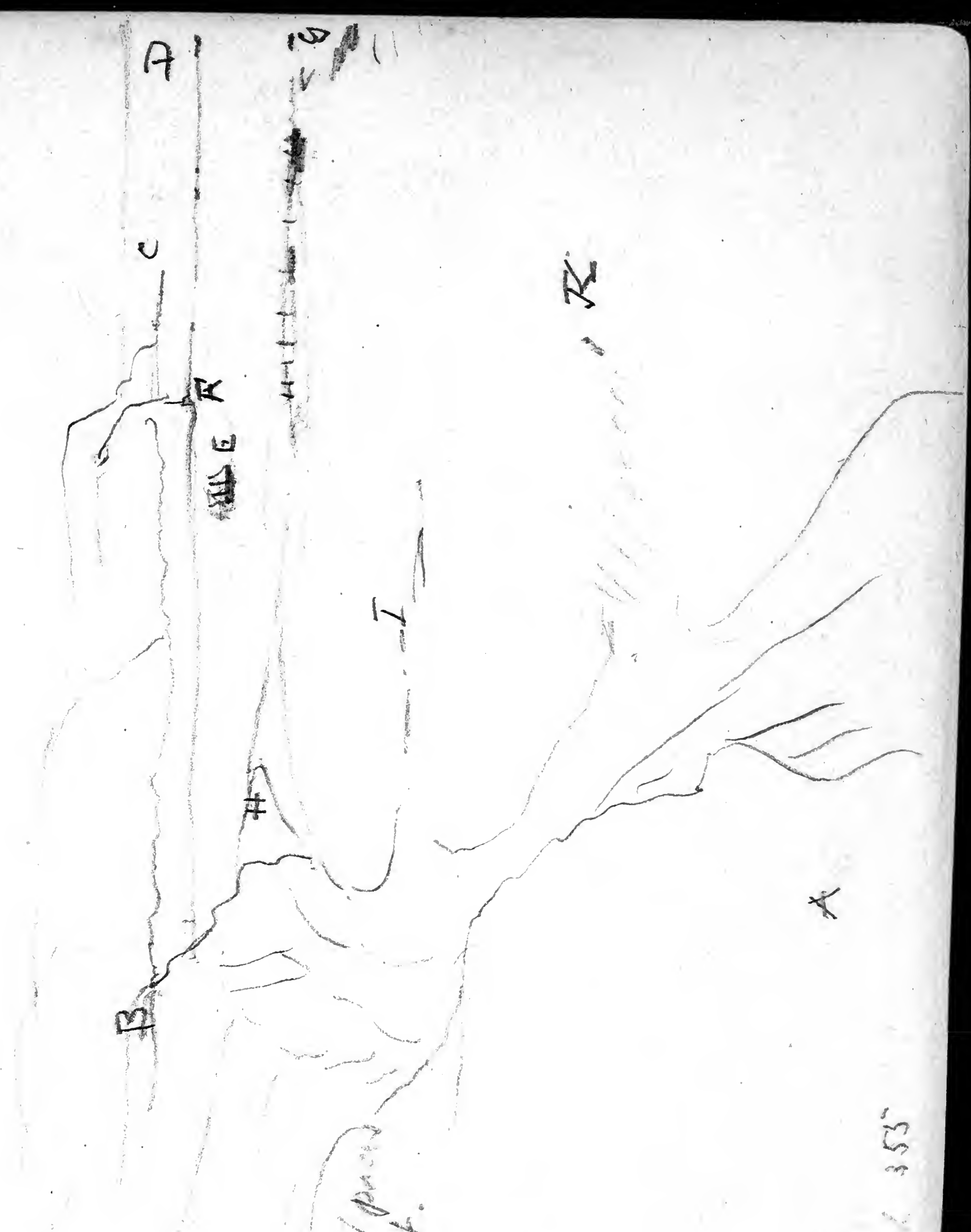
Back of notch to tip 8 3/4 ins.
 from base 5 in from notch incl. flap 3 3/8
 Pectoral at junction 4 1/2 "
 its hind corner 4 "
 at 4 1/2 "
 Inner corner to tip 7 "
 tip to ant. corner of pectoral 11 "
 Transverse at ant. corner 4 "
 hence to tip 6 "
 Anterior tip of dorsal to tip 12 "
 before base the fin is 3 inches
 at 7 inches and at 11 inches
 1 1/4 " 18 "
 Height of tip above back 7 ins.
 from base of the fin over back 1 in.
 Length of pectoral at 11 inches above back 2 ins
 5 " 1 1/2 "
 6 " 3/4 "
 Anterior edge of dorsal to the fin 10 1/2 "
 End of dorsal edge 14 "
 Ant. end to fin base 15 "
 Width of fin base 1 in.
 Length of fin in front of dorsal 6 ins
 Depth of fin from ant. end 2 "
 from ant. extremity of fin base 1 in.
 upper fin 3 ins
 lower fin 4 1/2 "
 Height of fin base above the base of pectoral 3 1/4 "
 Length of fin base 7 1/2 ins total 10 1/2 "
 also pectoral 5 1/2 " 10 1/2 "

Dorsal black
 blackish gray
 blackish back bordered by white line
 curving down beneath the dorsal, whole after end
 more or less lighter. One or narrow white streak broad for base
 white apex and curving yellow line of belly to tail
 another very narrow
 from center of mouth to
 over pectorals
 lower end of back marked dark gray & line then
 to ant. corner of pectorals

A)

A-B 761 paces
 north = 360000 = 1950 feet.

A	Station #73	2245	250
B	1150	6265	
C	142	6270	
D	150	6290	
E	182	6296	
F	140	303	
G	160	6322	
H	125	Bluff n. 10	
I	140	sub at n. 15	
K	195	Rock n. off at 353	



Kadiak

- ✓ 2 bidarka slats carved-
- ✓ 1 3 hole bidarka & equipment-
- ✓ 1 iron headed arrow
- ✓ 1 bone "
- ✓ 1 throwing board-
- ✓ 1 gut cap.
- ✓ 1 skull from cave - Agagmuk
- ✓ 1 bag of seal throats-
- ✓ 4 arrow sinew lanyards (Sutuk)
- ✓ 2 sinew thread for sewing
- ✓ 1 knife & fork } Nushugak-
- ✓ 1 ivory images }
- ✓ 1 model mask-

Chinikoff Eskimo

- ✓ Lock & key-
- ✓ seine net & be
- ✓ 2 whetstones
- ✓ Sinkers
- ✓ Arrow & head-
- ✓ Bow
- ✓ Wooden instrument

9.44 - 1 1/2 hrs x 3 = 27

Takutak-

- ✓ 1 Big dish-
- ✓ 1 Little flat ds - ✓ 1 bird pipe Capt. H.
- ✓ Shatay - carving ✓ 1 basket trap
- ✓ Chess men-
- ✓ Big Basket
- ✓ Bow
- ✓ 4 arrows
- ✓ 5 canoes-
- ✓ Halibut hook
- ✓ old woman's hat-
- ✓ Snuff mill
- ✓ Pipe
- ✓ round large dish
- ✓ Spoon
- ✓ Bird bottle
- ✓ Cigar case
- ✓ Little bird dish
- ✓ Teetotum-
- 5 things

1 sea mile
6086.4 feet
1845.0432 meters